City of Aurora
Building Codes Division
15151 E Alameda Pkwy
Aurora, CO 80012
(303) 739-7420

Notice

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Permit Application: BUILDING~FENCE~ SIGN

Building Division ~15151 E Alameda Pkwy ~ Aurora, CO 80012~ (303) 739-7420

Project Address: 1444 South Potomac | Unit # 280 | Zip code: 80012

Project Name/Subdivision: Medical Center of Aurora

Contractor: TBD | Phone: TBD | Fax: TBD

Contact Person: Emily Sinclair | Email: emily.sinclair@davispartnership.com

Phone: 303.861.8555 | Fax: 303.861.3027

Owner: (Required for CO) CB Richard Ellis

Owner address: 10099 Ridge Gate Parkway, Ste. 470 | Valuation / FDA: $80,000

Email: mary.liedike@cbre.com

REQUIRED FOR PROJECTS USING AN ARCHITECT and/or ENGINEER:

Architect or Engineer Name: Brian Erickson | Email: brian.erickson@davispartnership.com

Phone #: 303.861.8555 | Fax #: 303.861.3027

DESCRIBE THE WORK YOU WILL BE DOING: *small tenant finish remodel within an existing suite

SIGN PERMIT: Sign review will establish allowables. Use description above for additional information.

Monument sign? ☐Y ☐N Is height from grade more than 6': ☐Y ☐N

Electrician: (Required for any illuminated sign) Any existing waivers ☐Y ☐N If yes provide copy

FENCE PERMIT: Style/Type: * Describe work above ☐ Corner lot ☐ Interior lot Use Zone:

Height in. Greater than 50% open: ☐ Less than 50% open: ☐ Post size: ☐ x ☐ Post spacing:

NEW HOME CONSTRUCTION ONLY:

Model #: Elevation: Foundation Type: Basement Type: Unfinished:

Number of Deck(s): Covered: Uncovered: Size of Deck (s): Concrete Patio(s):

Covered: Uncovered: Size of Patio Cover: GFA – Qty: BTU's: /

Gas range/BBQ/oven/cook top: BTU's Qty AC/Cooler/CFM/Ton: Fireplace(qty):

BTU's: / Misc: Shower #: Lavatory #: Bathtub #: Water Closet #:

Water heater type: BTU'S: # Electrical Svc AMP: Other:

BOARD OF APPEALS - Contractor's Appeals and Standards Board. Applicants have the right to have the board hear appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of the building code. Any application for appeal to the board shall be based on a claim that the true intent of the code or the rules legally adopted there under have been incorrectly interpreted, the provisions of the building code do not fully apply or an equally good or better form of construction is proposed.

◆◆◆◆ THIS SPACE FOR OFFICE USE ONLY ◆◆◆◆

Fee Determination Assessment: $_____

Change of occupancy/use: Y ☐ N ☐

REVIEWS		INSPECTIONS	
☐	Sign		
☒	Structural	☒	Structural
☒	Mechanical	☒	Mechanical
☒	Plumbing	☒	Plumbing
☒	Electrical	☒	Electrical
☐	Fire Life Safety	☒	Life Safety
☒	Bldg Life Safety	☐	Gate/Haz.

Intake Date: 8-2-10

Water pre-approval: 8/2/2010

Zoning pre-approval: NO EXT WORK

Parent Permit RSN:

Parent Plan Location

Permit Type: TF

Sub Type:

Plans Examiner: JIM C.

Verify Homeowner:

Zoning class/Parking fac:

RSN: 555538

Permit #: 10-490136 TF

Balance Due: $

Sprinkler & Alarm permits must be brought in as separate submittals. "FDA" is NOT included in main permit.

Emily Sinclair
Print Name

Signature:

8.2.10
Date:

COMcheck Software Version 3.7.1
Interior Lighting Compliance Certificate

2006 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title :

Construction Site: Owner/Agent: Designer/Contractor:

Section 2: General Information

Building Use Description by: **Activity Type**

Activity Type(s)	Floor Area
Healthcare-Clinic	610

Section 3: Requirements Checklist

Interior Lighting:

☑ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
610	600	YES

10-490136

Controls, Switching, and Wiring:

☑ 2. Independent controls for each space (switch/occupancy sensor).
Exceptions:

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

☐ 3. Master switch at entry to hotel/motel guest room.

☐ 4. Individual dwelling units separately metered.

☑ 5. Each space provided with a manual control to provide uniform light reduction by at least 50%.
Exceptions:

Only one luminaire in space;

An occupant-sensing device controls the area;

The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Areas that use less than 0.6 Watts/sq.ft.

☐ 6. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.
Exceptions:

Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

☐ 7. Photocell/astronomical time switch on exterior lights.
Exceptions:

Lighting intended for 24 hour use.

☐ 8. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
Exceptions:

Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2006 IECC requirements in COM*check* Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

CHARLENE BOCEK - ENGINEER		8-3-10
Name - Title	Signature	Date

COM*check* Software Version 3.7.1

Interior Lighting Application Worksheet

2006 IECC

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Healthcare-Clinic	610	1	610
		Total Allowed Watts =	610

Section 2: Proposed Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Healthcare-Clinic (610 sq.ft.)				
Linear Fluorescent 1: TG2: 2-LAMP LENSED TROFFER / 48" T8 32W / Electronic	2	5	50	250
Linear Fluorescent 1 copy 1: PG2: 2-LAMP LOUVERED TROFFER / 48" T8 32W / Electronic	2	7	50	350
			Total Proposed Watts =	600

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts =	610
Total Proposed Watts =	600
Project Compliance =	10

Interior Lighting PASSES: Design 2% better than code.

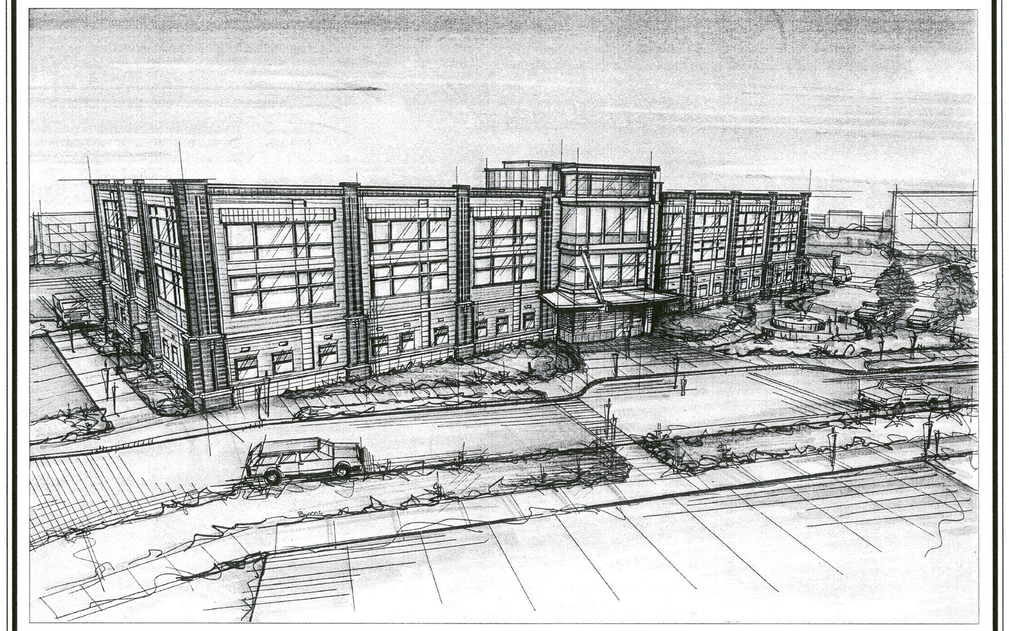
10-490136

MEDICAL CENTER OF AURORA

MEDICAL OFFICE BUILDING

TENANT FINISH

1444 South Potomac
Aurora, Colorado 80012



SUITE 280
NEUROSURGERY SUITE

CONSTRUCTION DOCUMENTS SET JULY 19, 2010

DRAWING INDEX

SHEET INDEX	
Number	Sheet
General	
G-100	COVER
G-101	SPECIFICATIONS 1
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G-105	MASTER DOOR AND FRAME TYPES
G-106	REGULATORY PLAN - SECOND FLOOR
Demolition	
AD-201	DEMOLITION PLAN
AD-301	DEMOLITION REFLECTED CEILING PLAN
Architectural	
A-201	CONSTRUCTION PLAN
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I-901	INTERIOR ELEVATIONS AND DETAILS
Mechanical	
M-201	PARTIAL SECOND FLOOR HVAC AND PLUMBING PLAN
Electrical	
E1	ELECTRICAL LEGEND, DETAIL AND SPECIFICAITONS
E2	ONE LINE DIAGRAM AND SCHEDULE
E3	ELECTRICAL FLOOR PLANS

Separate Life Safety drawings will be required for new systems or alterations to existing fire sprinkler systems. Plans must show sprinkler head locations, piping sizes and hydraulic calculations (if needed) and product cut sheets. Approval of the plan set is required prior to a request for inspection.

Separate Life Safety construction documents are required for new Fire Alarm Systems or alterations to existing systems. Documents shall include device locations, one-line diagrams, battery calculations, and product cut sheets. Approval of documents is required prior to request for inspection.

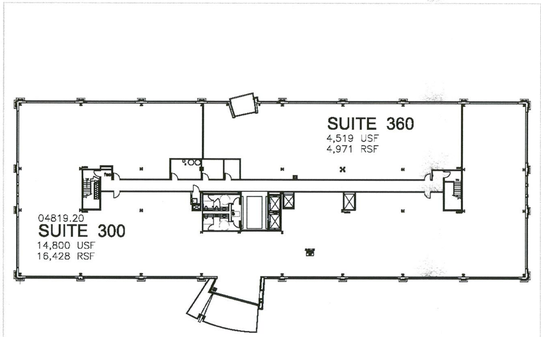
Provide U.L. Class 2A10BC minimum rating fire extinguishers at a maximum 75'-0" travel distance prior to the Certificate of Occupancy issuance (2006 IFC Table 906.3[1] and 2002 NFPA 10)

Consultation for fire extinguisher placement is available upon request. Call 303-739-7420 prior to final Life Safety inspection to verify proposed locations.

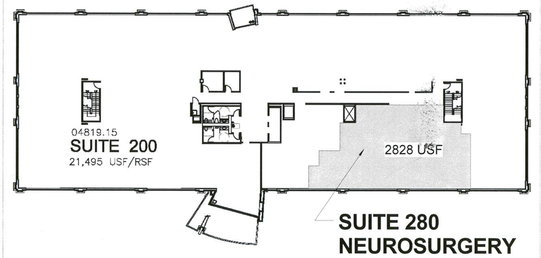
This plan was reviewed for adopted codes and NOT reviewed for compliance with ADA or FHA accessibility. Contact 800-949-4232 (ADA) and 303-894-7822x325 (FHA) for federal accessibility requirements that apply to your project.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation per 2006 IBC 105.4.

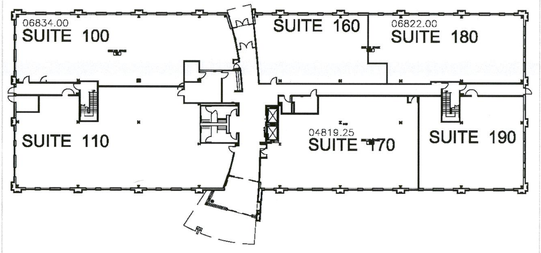
City of Aurora Plan Review
Occ. Type: B
Const. Type: IIB - SPK
Square Footage: 2828 SF
Code: 06 I-CODES / 08 NEC
RSN: 555538
Permit No. 10-490136 TF



3 THIRD FLOOR ORIENTATION PLAN
1/32" = 1'-0"



2 SECOND FLOOR ORIENTATION PLAN
1/32" = 1'-0"



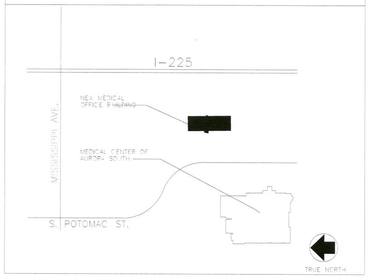
1 FIRST FLOOR ORIENTATION PLAN
1/32" = 1'-0"

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE 8/3/10

Owner:
CB Richard Ellis
Mary Liedike
10099 Ridge Gate Parkway, Suite 470
Lone Tree, CO 80124
Telephone: 303.925.1463
Fax: 303-925-1745
mary.liedike@cbre.com

Architect:
Davis Partnership P.C. Architects
2301 Blake Street
Suite 100
Denver, CO 80205
Telephone: 303.861.8555
Fax: 303.861.3027
Contact: Emily Sinclair,
Emily.Sinclair@davispartnership.com

VICINITY MAP



ALTERNATES

Aurora, Colorado

8/3/2010 8:45:35 AM

DAVIS PARTNERSHIP ARCHITECTS

Denver: 2301 Blake Street, Suite 100 Denver, CO 80205 303.861.8555

Vail: 0225 Main Street, Unit C101 Edwards, CO 81632 970.926.8960

Consultant

STATE OF COLORADO
BRIAN WILLIAM ERICKSON
304813
LICENSED ARCHITECT
8-3-10

Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.19.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
COVER

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
G-100

DPA Project: 10814.00

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SECTION 01010 – SUMMARY OF WORK
PROJECT DESCRIPTION:
The project consists of interior tenant remodel with interior architectural, mechanical, and electrical work for suite 280 within the existing suite 200 in the Medical Office Building core and shell located on the Medical Center of Aurora South in Aurora, Colorado, as indicated on these Contract Documents.

LOCATION:
Medical Center of Aurora South
Medical Office Building
1444 South Potomac
Aurora, Colorado 80012

OWNER:
CB Richard Ellis
10099 Ridge Gate Parkway, Suite 470
Lone Tree, CO 80124

PREMISES:
During tenant improvement construction the Contractor shall have limited use of space as defined by the subject tenant suite. Contractor's use of premises is limited only by Owner's right to perform work or employ other contractors on portions of the project.

SECTION 01027 – APPLICATIONS FOR PAYMENT:
Submit a Schedule of Values which breaks down the Contract Sum into at least one line item for each technical Specification Heading . Correlate the Schedule of Values with the Contractor's Construction Schedule. Submit (3) three copies of each Application for Payment on AIA Document G702/703, in accordance with the schedule established in the Agreement. For the Application submitted at Substantial Completion, submit partial releases of liens from each subcontractor or supplier for whom amounts were requisitioned on the previous payment.

SECTION 01030 – ALTERNATES
Alternates if any will be scheduled and described on the cover sheet of the drawings for each individual suite. Include as part of each Alternate, miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.
State amount proposed by Bidders on the Bid Form for certain construction activities defined as an Alternate that may be added to or deducted from Base Bid amount if the Owner decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems or installation methods described in Contract Documents.
Include as part of each Alternate, miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

COORDINATION:
Coordinate related Work and modify or adjust adjacent Work as necessary to ensure that Work affected by each accepted Alternate is complete and fully integrated into the project. Include miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation.

NOTIFICATION:
Immediately following the award of the Contract, prepare and distribute to each party involved, notification of the status of each Alternate. Indicate whether Alternates have been accepted, rejected or deferred for consideration at a later date. Include a complete description of negotiated modifications to Alternates.

SECTION 01035 – MODIFICATION PROCEDURES:
Upon the Owner's approval of a proposal from the Contractor, submitted either in response to a Proposal Request issued by the Architect or as a request for change from the Contractor, the Architect will issue a Change Order on AIA Document G701, for all changes to the Contract Sum or Contract Time.

SECTION 01040 – PROJECT COORDINATION:
COORDINATION:
Coordinate construction activities included under various Sections of these Specifications to assure efficient and orderly installation of each part of the Work. Coordinate construction operations included under different Sections of the Specifications that are dependent upon each other for proper installation, connection, and operation.
Where installation of one part of the Work is dependent on installation of other components, either before or after its own installation, schedule construction activities in the sequence required to obtain the best results.
Where availability of space is limited, coordinate installation of different components to assure maximum accessibility for required maintenance, service and repair.
Make adequate provisions to accommodate items scheduled for later installation

ADMINISTRATIVE AND SUPERVISORY PERSONNEL:
The Contractor shall assign a full-time Project Manager for this project, whose principal office shall be on site. The Project Manager shall be responsible for this project exclusively.
The Contractor shall require major Mechanical and Electrical contractors to assign full-time on-site managerial personnel (in addition to work Superintendent) for this project exclusively.

SECTION 01045 – CUTTING AND PATCHING:
Do not cut structural members without prior written approval of Architect. For patching provide materials whose installed performance will equal or surpass that of existing materials. For exposed surfaces, provide or finish materials to visually match existing adjacent surfaces to the fullest extent possible. Any core drilling or floor penetrations required must be coordinated and scheduled through the building manager to avoid disruption of existing tenants.

SECTION 01095 – REFERENCE STANDARDS AND DEFINITIONS:
DEFINITIONS:
Directed: Terms such as "directed," "requested," "authorized," "selected," "approved," "required," and "permitted" mean "directed by the Architect," "requested by the Architect," and similar phrases.
Approve: The term "approved," where used in conjunction with the Architect's action on the Contractor's submittals, applications, and requests, is limited to the Architect's duties and responsibilities as stated in the Conditions of the Contract.
Furnish: The term "furnish" is used to mean "supply and deliver to the Project site, ready for unloading, unpacking, assembly, installation, and similar operations."
Install: The term "install" is used to describe operations at project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations."
Provide: The term "provide" means "to furnish and install, complete and ready for the intended use."
The term "experienced," when used with the term "Installer," means having a minimum of five previous projects similar in size and scope to this Project, being familiar with the special requirements indicated, and having complied with requirements of the authority having jurisdiction.

INDUSTRY STANDARDS:
Applicability of Standards: Except where the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
Comply with the standard in effect as of the date of the Contract Documents.
Conflicting Requirements: Where compliance with two or more standards is specified, and the standards may establish different or conflicting requirements for minimum quantities or quality levels, refer requirements that are different, but apparently equal, and uncertainties to the Architect for a decision before proceeding.
Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entity's construction activity. Copies of applicable standards are not bound with the Contract Documents.

SECTION 01200 – PROJECT MEETINGS:
Progress meetings will be held at Project site as required to assure the correct and timely completion of the project. Owner, Architect, Contractor and each subcontractor or other entity concerned with current progress or involved with planning or coordination of future activities, shall attend. Minutes of each meeting will be prepared by Contractor and distrbuted to all parties present.
Tenant Site meetings: There will be two site meetings for each tenant: One meeting to be scheduled for the chalk walk and electrical box coordination. Another meeting to be scheduled for final punchlist.
Agenda: Review and correct or approve minutes of the previous progress meeting. Include topics discussion as appropriate to progress and the current status of the Project.
Contractor's Construction Schedule: Review progress since the last meeting. Determine where each activity is in relation to the Contractor's Construction Schedule. Determine how construction behind schedule will be expedited.
Reporting: No later than 3 days after each progress meeting date, Contractor shall distribute copies of minutes of the meeting to each party present and to other parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report action items and party responsible, unresolved items, resolution of problems.
Schedule Updating: Revise the construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.

SECTION 01300 – SUBMITTALS:
Coordinate submittal preparation with construction schedule, fabrication lead-times, other submittals and activities that require sequential operations. No extension of Contract Time will be authorized due to failure to transmit submittals in time to permit processing sufficiently in advance of when materials are required in the work. Prepare submittals by placing a permanent label on each for identification. Provide label to record review and approval markings and action taken. Include the following information on the label:

Project Name
Date
Name and Address of Contractor
Name and Address of Subcontractor and Supplier
Title of Appropriate Technical Specification Heading

SHOP DRAWINGS:
Submit newly prepared information drawn to scale. Indicate deviations from Contract Documents. Do not reproduce Contract Documents or copy standard information.
Submit (1) one reproducible print and (1) one blue or black-line print on sheets at least 8-1/2 by 11 inches but no larger than 30 by 42 inches. Architect will return the reproducible print.

PRODUCT DATA: Submit (3) three copies of product data and mark each copy to show applicable choices and options.

SAMPLES:
Submit (3) three sample finishes as specified and identical with material proposed. Where variations are inherent in the material, submit at least (3) three units that show limits of the variations. Include product name or name of the manufacturer. Architect will review each submittal, mark as appropriate to indicate action taken, and return copies less those retained.

ARCHITECT'S ACTION:
No submittal will be reviewed unless evidence of Contractor's review is indicated thereon. The Architect may return such submittals, if either the contents of the submittal or the absence of results of Contractor's review indicate no review occured. Except for submittals for record, information or similar purposes, where action and return is required or requested, the Architect will review each submittal, mark to indicate action taken, and return promptly. Compliance with specified characteristics is the Contractor's responsibility.
Action Stamp: The Architect will stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked to indicate the action taken.
Architect's Consultant Action: Where Architect has commissioned and directed a separate design Consultant to review submittals pertaining to their portion of the Contract Documents, the Architect's Consultant will stamp each submittal with a uniform self-explanatory action stamp similar in language and intent to the Architect's. In addition the Architect will stamp same submittal with action stamp marked "See Consultant Review Action".

SECTION 01500 – TEMPORARY FACILITIES:
Comply with: NFPA 241, "Standard for Safeguarding Construction, Alterations, and Demolition Operations; ANSI A10 Series standards for "Safety Requirements for Construction and Demolition"; and NECA Electrical Design Library's "Temporary Electrical Facilities." Electrical service shall be in accordance with NEMA NECA and UL standards and regulations for temporary electrical service. Install service in compliance with NFPA 70.

TEMPORARY SUPPORT FACILITIES:
Use of the Owner's existing sanitary facilities will be permitted, so long as facilities are cleaned and maintained in a condition acceptable to the Owner. At Substantial Completion, restore these facilities to the condition prevalent at the time of initial use.

DUST CONTROLS: Contractor to implement dust control measures as warranted by construction activities and location.

TEMPORARY FIRE PROTECTION: Maintain portable fire protection during modification of building of building fire-protection system.

TEMPORARY SECURITY AND PROTECTION:
Provide temporary barricades, warning signs, and lights to protect the public and construction personnel from construction hazards, when necessary.

SECTION 01631 – PRODUCT SUBSTITUTIONS:
The Owner and Architect may consider substitutions of specified materials which provide a savings in Contract Sum and/or Time. The Contract Sum and Time savings shall be identified at time of submittal. The request for substitution shall be submitted in reasonable and timely manner for review, as not to delay construction. Substitution submittals shall include product information, test data, samples (if applicable), delivery time, and cost information. If deemed acceptable by the Owner and Architect, the substitution submitted may be used by the Contractor. Acceptance of the substitution by the Owner and Architect does not relieve the Contractor of responsibility in performance or workmanship in relation to the substitution. The required warranties of any item of construction shall not be modified by substitutions.

SECTION 01650 – EXECUTION REQUIREMENTS:
EXAMINATION AND PREPARATION:
Examine substrates and conditions for compliance with manufacturer's written requirements including, but not limited to, surfaces that are sound, level and plumb; substrates within installation tolerances; surfaces that are smooth, clean and free of deleterious substances; and application conditions within environmental limits. Do not proceed with installation until unsatisfactory conditions have been corrected. Prepare substrates and adjoining surfaces according to manufacturer's written instructions.

INSTALLATION:
Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned. Clean exposed surfaces and protect from damage. If applicable, prepare surfaces for field finishing.

SECTION 01700 – PROJECT CLOSEOUT:
RECORD DOCUMENT SUBMITTALS:
Maintain a set of Contract Drawings as Record Drawings. Mark to show installation that varies from the Work as originally shown.ons

CLOSEOUT PROCEDURES:
Request Substantial Completion inspection once the following are complete:
Advise Owner of pending insurance changeover requirements.
Submit Record Drawings, warranties and similar record information.
Complete startup testing of systems and instruction of operation and maintenance personnel.
Remove temporary facilities and controls.
Complete final cleanup.
Touch up, repair and restore marred, exposed finishes.
Obtain final inspections from authorities having jurisdiction.
Obtain certificate of occupancy.
Upon receipt of a request for inspection, Architect will proceed with inspection or advise Contractor of unfulfilled requirements.
Arrange for each installer of equipment that requires operation and maintenance to provide instruction to Owner's personnel.

FINAL CLEANING:
Clean each surface or item as follows before requesting inspection for certification of Substantial Completion: Remove labels that are not permanent. Clean transparent materials, including mirrors. Remove excess glazing compounds. Replace chipped or broken glass. Clean exposed finishes to a dust-free condition, free of stains, films and foreign substances. Vacuum carpeted surfaces and wax resilient flooring.

SECTION 01732 – SELECTIVE DEMOLITION:
Unless otherwise indicated, demolished materials become Contractor's property. Comply with EPA regulations and disposal regulations of authorities having jurisdiction.
Conduct demolition without disrupting Owner's and other Tenants' occupation of the building.

Maintain and protect existing utilities to remain in service before proceeding with demolition, providing bypass connections to other parts of the building. Locate, identify, shut off, disconnect, and cap off utility services to be demolished. Protect remaining Core and Shell and adjoining Tenant walls, ceilings, floors, and exposed finishes. Erect and maintain dust-proof partitions. Cover and protect remaining Core and Shell and adjoining Tenant furniture, furnishings, and equipment. Promptly patch and repair holes and damaged surfaces of building caused by demolition. Restore exposed finishes of patched areas and extend finish restoration into remaining adjoining construction. Promptly remove demolished materials from Owner's property and legally dispose of them. Do not burn demolished materials.

SECTION 01740 – WARRANTIES:
Submit written warranties to the Architect prior to the date certified for Substantial Completion. If the Architect's Certificate of Substantial Completion designates a commencement date for warranties other than the sate of Substantial Completion for the Work, or as a design portion of the Work, submit written warranties upon request of the Architect.

At Final Completion compile (2) two copies of each warranty properly executed by the Contractor, or by the Contractor, Subcontractor, Supplier or Manufacturer. Organize the warranty documents into an orderly sequence based on each technical Specification Heading. Request inspection for certification of final acceptance and final payment, once the following are complete:
Submit final payment request with releases of liens and supporting documentation.
Include insurance certificates.
Submit consent of surety to final payment.
On completion of re-inspection, Architect will prepare a certificate of final acceptance. If the Work is incomplete, Architect will advise Contractor of the Work that is incomplete or obligations that have not yet been fulfilled.

SECTION 05500 – METAL FABRICATIONS:
Shop Drawings: Detail fabrication and erection of each metal fabrication indicated. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.
Fabricator Qualifications: A firm experienced in producing metal fabrications similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
Welding: Qualify procedures and personnel according to the following: AWS D1.1, "Structural Welding Code--Steel." AWS D1.3, "Structural Welding Code--Sheet Steel."
Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification
Metal Surfaces, General: For metal fabrications exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness

FERROUS METALS:
Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
Steel Tubing: Cold-formed steel tubing complying with ASTM A 500.
Steel Pipe: ASTM A 53, standard weight (Schedule 40), unless another weight is indicated or required by structural loads.
Slotted Channel Framing: Cold-formed metal channels with flange edges returned toward web and with 9/16-inch-(14.3-mm-) wide slotted holes in webs at 2 inches(51 mm) o.c.; Width of Channels: 1-5/8 inches(41 mm); Depth of Channels: 1-5/8 inches(41 mm); Metal and Thickness: Uncoated steel complying with ASTM A 570, Grade 33; 0.0966-inch(2.5-mm) minimum thickness; Finish: Rust-inhibitive, baked-on, acrylic enamel.
Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

FINISH
Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes

SECTION 06100 – ROUGH CARPENTRY:
FIRE-RETARDANT-TREATED MATERIALS:
Where fire-retardant-treated wood is indicated, comply with applicable requirements of AWPA C20 (lumber) and AWPA C27 (plywood). Identify fire-retardant-treated wood with appropriate classification marking of UL; U.S. Testing; Timber Products Inspection, Inc.; or another testing and inspecting agency acceptable to authorities having jurisdiction

MISCELLANEOUS LUMBER:
Provide lumber for support or attachment of other construction, including bucks, nailers, blocking, furring, grounds, stripping, and similar members.

STRUCTURAL-USE PANELS FOR BACKING
Plywood Backing Panels: For mounting electrical and telephone equipment and the like, provide fire-retardant-treated plywood panels with grade, C-D Plugged Exposure 1, in thickness indicated or, if not otherwise indicated, not less than 15/32 inch thick.

SECTION 06402 – INTERIOR ARCHITECTURAL WOODWORK:

Submit Samples:
1. Show the full range of colors, textures, and patterns available for each type of finish.
2. Exposed cabinet hardware and accessories, one unit for each type and finish.

Submit Shop Drawings:
1. Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
2. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
3. Show locations and sizes of cutouts and holes for plumbing fixtures, faucets, soap dispensers, and other items installed in architectural woodwork.
4. Show veneer leaves with dimensions, grain direction, exposed face, and identification numbers indicating the flitch and sequence within the flitch for each leaf.

QUALITY STANDARD: Interior Architectural Woodwork shall meet Architectural Woodwork Institute's "Architectural Woodwork Quality Standards" for grades of interior architectural woodwork, construction, finishes, and other requirements.

MATERIALS:
Hardboard: AHA A135.4
Medium-Density Fiberboard: ANSI A208.2
Particleboard: ANSI A208.1, Grade M-2
Hardwood Plywood and Face Veneers: HPVA HP-1
High-Pressure Decorative Laminate: NEMA LD 3
Solid Surface Material: ¾ inch thick; Provide Architect's selections from manufacturer's listed in Finish Schedule
Furring, Blocking, shims and Hanging Strips: Softwood or hardwood lumber, kiln dried to 15 percent moisture content.
Provide Fire-retardant-treated lumber for blocking at casework and surrounds.

CABINET CONSTRUCTION:

A. Quality Standard: Comply with AWI Section 400 requirements for laminate cabinets except as shown or specified.

B. Construct base and wall cabinets, doors and drawers and reception counters as follows:
1. Base and wall cabinet body:
a. Bottom, sides, solid sub-top: ¾" particle board, hardwood dowel sub-top, sides and bottoms at 4" o.c.
b. Back: ½" particle board, let into sides, bottom and sub-top continuously and hot melt glued.
c. Spreader: ¾" x 6" at each drawer.
d. Hang vails: ¾" x 4" at top and bottom.
e. Shelves: Thermoset covered (six sides) particleboard except 1" particle board for shelves longer than 36".
2. Drawers:
a. Sides, back and sub-front: ½" thick thermoset coated particle board.
b. Bottom: ⅜" thick thermoset coated particle board, let into sides, sub-front, and back continuously hot melt glued.
c. Corner joints: single rabbeted and continuous hot melt glued at sides, back and subfront, STAPLES NOT PERMITTED.
3. Doors and Drawer Fronts:
a. ¾" thick particle with PVC (3mm) edges, hot melt glued and laminate both sides.
b. Attachment: drawer fronts hot melt glued and (min) 4 wood screws to subfront.
4. Base cabinet bases
¾" particle board with doweled rigid joint and cross members (ladder style) at 48" o.c. max.

C. Grade: Custom

D. AWI Type of Cabinet Construction: Flush overlay with ½ inch reveal or as indicated.

E. High-Pressure Decorative Laminate Cladding: Complying with the following requirements:

1. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
a. Match color, pattern, and finish indicated by reference to laminate manufacturer's standard designations for these characteristics. See Finish Schedule.

2. Laminate Grade for Exposed Surfaces: Provide laminate cladding complying with the following requirements for type of surface grade.

a. Horizontal surfaces other than tops: GP-28 (0.028-inch nominal thickness).
b. Post-formed surfaces: PF-42 (0.042-inch nominal thickness).
c. Vertical surfaces: GP-50 (0.050-inch nominal thickness).
d. Edges: GP-50 (0.050-inch nominal thickness).

3. Semiexposed surfaces:
a. High pressure laminate, CL-20
b. Thermoset decorative overlay for cabinet drawers and interiors.

F. Laminate Grade: GP-50.
G. Edge Treatment: PVC edges: 1mm, color matching plastic laminate.
H. Provide dust panels of ¼-inch plywood or tempered hardboard above compartments and drawers except where located directly under tops.

FABRIC WRAPPED TACKABLE SURFACE PANELS
Manufacture: Homosote
Flamespread: Class I (or A) ASTM E84
Density: 30-40
Water absorption by vol. (max.) 5%
Conditioned Moisture Content (max.) 14%
Expansion from 50% to 90% rel. hum. (max.) 0.30%
R-Value: .85
NRC: 0.20
Flame Spread

CABINET HARDWARE AND ACCESSORIES:
Exposed Hardware Finishes: For exposed hardware, provide finish that complies with ANSI/BHMA A156.18 for BHMA code number indicated: Satin Chromium or Nickel Plated; BHMA 626.
Hinges: Flush Overlay. Concealed Hinges 110 degrees.
Pulls: 4 inch by 5/16 inch U-shaped wire, brushed chrome, washer bases; Epco No. MC-402-96-DC or equal by Hafele
Magnetic Catches: B03141
Adjustable Shelf Standards and Brackets Finish: Manufacturer's standard brushed chrome or satin finish.
Standards: Knape and Vogt No. 87 Heavy Duty or equal.
Brackets: Knape and Vogt No. 186, 10 inch Heavy Duty or equal.
Bracket Length: Not more than 2 inches less than shelf width.
Shelf Rests: Knape and Vogt No. 211 or equal.
Adjustable Shelf Clips: Molded nylon with positive locking steel pin to fit pre-drilled holes on 2 inch center. US TEK – "Engstrom Shelf Clip:.
Door Locks: where shown on drawings: National Lock #C-8173-26D.
Drawers Lock where shown on drawings: National Loc #C-8178-26D.
Grommets for cable passage through countertops: 3 inch OD, molded-plastic grommets with 2 1/4 inch hole and plastic cap with slot for wire passage; Doug mockett "EDP" Series. Color: Selected by Architect from manufacturer full range. Provide quantity for locating 36 inches o.c. at all reception and work counter; field verify final location with Owner.
Closet Rod: Knape and Vogt No. 750 1 regular round steel tubing, chrome-look finish, 1 1/16 inch o.d., length as required.
Rod End Brackets: Chrome look finish for 1 1/16 inch o.d. rod: Knape and Vogt No. 734 and No. 735.
Intermediate Rod Support: White heavy duty shelf and rod support; Knape and Vogt No. 1195.
Drawer Slides: Hafele – zinc plated steel drawer slides with steel ball bearings – 100 lbf Accuride 3832

SECTION 07210 – BUILDING INSULATION:
FIRE PERFORMANCE CHARACTERISTICS:
Provide insulation materials identical to those whose indicated fire performance characteristics have been determined per the ASTM test method indicated below, by UL or other testing and inspecting organizations acceptable to authorities having jurisdiction. Identify products with appropriate markings of applicable testing and inspecting organization.
Surface Burning Characteristic: ASTM E 84.
Fire Resistance Ratings: ASTM E 119.
Combustion Characteristics: ASTM E 136.

AVAILABLE MANUFACTURERS: Subject to compliance with requirements, manufacturers offering insulation products that may be incorporated in the work include, but are not limited to, the following: Glass-Fiber Insulation: CertainTeed Corporation; Knauf Fiber Glass GmbH; Owens-Corning Fiberglas Corporation; Schuller International, Inc.

INSTALLATION:
Comply with insulation manufacturer's instructions applicable to products and application indicated. If printed instructions are not available or do not apply to project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with installation of insulation. Extend insulation full thickness as indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation. Remove projections that interfere with placement. Apply a single layer of insulation of required thickness, unless otherwise shown or required to make up total thickness.

ACOUSTICAL BATT INSULATION:
WALLS: Include 3-½" sound batt insulation to underside of deck above where indicated by wall type on the drawings.
CEILINGS: Provide horizontal batt insulation above restroom and all clinical exam room ceilings and other areas as scheduled on the drawings.

SECTION 07251 – SPRAYED-ON FIREPROOFING:
This Section includes information for purposes as it pertains to touch-up of areas disturbed during the tenant finish work.
Submit Product data for each sprayed-on fireproofing product indicated

QUALITY:
Fire-Test-Response Characteristics: Provide sprayed-on fireproofing products identical to those used in assemblies tested for the following fire-test-response characteristics, per test method indicated below, by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify packages (bags) containing fireproofing with appropriate classification markings of applicable testing and inspecting agency.
Fire-Resistance Ratings: As indicated by reference to fire-resistive designs listed in UL "Fire Resistance Directory," or in the comparable publication of another testing and inspecting agency acceptable to authorities having jurisdiction, for fire-resistive assemblies where sprayed-on fireproofing serves as direct-applied protection, tested per ASTM E 119.
Surface-Burning Characteristics: As indicated for each sprayed-on fireproofing product required, tested per ASTM E 84.
Installer Qualifications: Engage an experienced Installer certified, licensed, or otherwise qualified by the sprayed-on fireproofing manufacturer as having the necessary experience, staff, and training to install manufacturer's products per specified requirements. A manufacturer's willingness to sell its sprayed-on fireproofing products to the Contractor or to an Installer engaged by the Contractor does not in itself confer qualification on the buyer.
Owner will employ and pay a qualified independent testing agency to perform field quality-control testing services specified in Part 3 of this Section.
Testing Agency Qualifications: To qualify for acceptance, an independent testing agency hired by Contractor or manufacturer to test sprayed-on fireproofing products must demonstrate to Architect's satisfaction, based on evaluation of agency-submitted criteria conforming to ASTM E 699, that it has the experience and capability to conduct satisfactorily the testing indicated.
Provide fireproofing products containing no detectable asbestos as determined according to the method specified in 40 CFR Part 763, Subpart F, Appendix A, Section 1, Polarized Light Microscopy.

PROJECT CONDITIONS:
Environmental Conditions: Do not install sprayed-on fireproofing when ambient or substrate temperatures are 40 deg F (4.4 deg C) and falling, unless temporary protection and heat is provided to maintain temperatures at or above this level for 24 hours before, during, and for 24 hours after applying sprayed-on fireproofing.ation
Ventilation: Ventilate sprayed-on fireproofing by natural means or, where this is inadequate, forced-air circulation during and after application until fireproofing dries thoroughly.

SPRAYED-ON FIREPROOFING MATERIALS
General: For concealed applications of sprayed-on fireproofing provide manufacturer's standard products complying with requirements indicated in this article for material composition and physical properties representative of installed products.
Material Composition: Cementitious fireproofing consisting of factory-mixed, dry formulation of gypsum or portland cement binders and lightweight mineral or synthetic aggregates mixed with water at Project site to form a slurry or mortar for conveyance and application.
Physical Properties: Minimum values, unless otherwise indicated or higher values required to attain designated fire-resistance ratings, measured per standard test methods referenced with each property listed below:
Bond Strength: 200 lbf per sq. ft. as determined per ASTM E 736 under the following conditions:
Field test sprayed-on fireproofing that is applied to flanges of wide-flange structural steel members on surfaces matching those that will exist for remainder of steel receiving fireproofing.
If surfaces of structural steel receiving sprayed-on fireproofing are primed or otherwise painted, perform series of bond tests specified in UL "Fire Resistance Directory" for coating materials.
Minimum sprayed-on fireproofing thickness tested in laboratory shall be 0.75 inch.
Compressive Strength: 9 lbf per sq. inch as determined in the laboratory per ASTM E 761. Minimum sprayed-on fireproofing thickness tested shall be 0.75 inch and the minimum dry density shall be as specified, but not less than 15 pcf.
Corrosion Resistance: No evidence of corrosion as determined per ASTM E 937.
Deflection: No cracking, spalling, delamination or the like as determined per ASTM E 759.
Effect of Impact on Bonding: No cracking, spalling, delamination or the like as determined per ASTM E 760.
Air Erosion: Maximum weight loss of 0.025 gram per sq. ft. in 24 hours as determined per ASTM E 859. For laboratory tests, the minimum sprayed-on fireproofing thickness is 0.75 inch, the maximum dry density is 15 pcf, test specimens are not prepurged by mechanically induced air velocities, and tests are terminated after 24 houLocrs. 84.
Dry Density: 15 pcf for average and individual densities regardless of density indicated in referenced fire-resistive design, or greater if required to attain fire-resistance ratings indicated, as determined per ASTM E 605.
Surface-Burning Characteristics: Maximum flame-spread value of 10 and smoke-developed value of 0.

AVAILABLE PRODUCTS:
Subject to compliance with requirements, products that may be incorporated in the Work include, but are not limited to, the following: Cementitious Fireproofing: Monokote Type MK-6/HT, Construction Products Div., W.R. Grace & Co.-Conn; CAFCO 300; Isolatek International Corp., CAFCO Products; CAFCO Blaze-Shield II, Isoloatek International Corp., CAFCO Products

INSTALLATION:
Comply with fireproofing manufacturer's instructions for mixing materials, application procedures, and types of equipment used to convey and spray on fireproofing materials; as applicable to the particular conditions of installation and as required to achieve fire-resistance ratings indicated.

SECTION 07270 – FIRESTOPPING:
SYSTEM PERFORMANCE REQUIREMENTS:
Provide firestopping systems that are produced and installed to resist the spread of fire, according to requirements indicated, and the passage of smoke and other gases.
F-Rated Through-Penetration Firestop Systems: Provide through-penetration fire ratings indicated, as determined per ASTM E 814, but not less than that equaling or exceeding the fire-resistance rating of the constructions penetrated.
T-Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with T ratings, in addition to F ratings, as determined per ASTM E 814, where systems protect penetrating items exposed to contact with adjacent materials in occupiable floor areas.
Fire-Resistive Joint Sealants: Provide joint sealants with fire-resistance ratings indicated, as determined per ASTM E 119, but not less than that equaling or exceeding the fire-resistance rating of the construction in which the joint occurs.
For firestopping exposed to view, provide products with flame-spread values of less than 25 and smoke-developed values of less than 450, as determined per ASTM E 84.

SUBMITTALS:
Submit product data for each type of product specified.
Submit a schedule of firestopping proposed to be used.

QUALITY ASSURANCE:
Fire-Test-Response Characteristics: Provide firestopping that complies with the following requirements and those specified under the "System Performance Requirements" article:
Firestopping tests are performed by a qualified testing and inspecting agency. A qualified testing and inspecting agency is UL, Warnock Hersey, or another agency performing testing and follow-up inspection services for firestop systems that is acceptable to authorities having jurisdiction.
Through-penetration firestop systems are identical to those tested per ASTM E 814 under conditions where positive furnace pressure differential of at least 0.01 inch of water is maintained at a distance of 0.78 inch below the fill materials surrounding the penetrating items in the test assembly. Provide rated systems complying with the following requirements:
Through-penetration firestop system products bear classification marking of qualified testing and inspecting agency.
Through-penetration firestop systems correspond to those indicated by reference to through-penetration firestop system designations listed by UL in their "Fire Resistance Directory," by Warnock Hersey, or by another qualified testing and inspecting agency conforming to the requirements of U.B.C. Standards 43-6 .
Fire-resistive joint sealant systems are identical to those tested for fire-response characteristics per ASTM E 119 under conditions where the positive furnace pressure differential is at least 0.01 inch of water, as measured 0.78 inch from the face exposed to furnace fire. Provide systems complying with the following requirements:
Fire-Resistance Ratings of Joint Sealants: As indicated by reference to design designations listed by UL in their "Fire Resistance Directory" or by another qualified testing and inspecting agency conforming to the requirements of U.B.C. Standards 43-1Joint sealants, including backing materials, bear classification marking of qualified testing and inspection agency.
Installer Qualifications: Engage an experienced Installer who has completed firestopping that is similar in material, design, and extent to that indicated for Project and that has performed successfully.
Single-Source Responsibility: Obtain through-penetration firestop systems for each kind of penetration and construction condition indicated from a single manufacturer.Provide firestopping products containing no detectable asbestos as determined by the method specified in 40 CFR Part 763, Subpart F, Appendix A, Section 1, "Polarized Light Microscopy."nts

PROJECT CONDITIONS
Environmental Conditions: Do not install firestopping when ambient or substrate temperatures are outside limits permitted by firestopping manufacturers or when substrates are wet due to rain, frost, condensation, or other causes.
Ventilation: Ventilate firestopping per firestopping manufacturers' instructions by natural means or, where this is inadequate, forced air circulation.

PRODUCTS:
Provide firestopping composed of components that are compatible with each other, the substrates forming openings, and the items, if any, penetrating the firestopping under conditions of service and application, as demonstrated by firestopping manufacturer based on testing and field experience. Use only components specified by the firestopping manufacturer and approved by the qualified testing and inspecting agency for the designated fire-resistance-rated systems.

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include the following: Specified Technologies, Inc.; 3M, Fire Protection Products; Tremco, Inc.

INSTALLATION:
Comply with the "System Performance Requirements" above, with ASTM C 1193, and the manufacturer's installation instructions and drawings pertaining to products and applications indicated.

SECTION 07920 – JOINT SEALANT:
Submit Product Data and color samples.
Compatibility: Provide joint sealant, joint fillers, and other related materials that are compatible with one another and with joint substrates under service and application conditions.
Elastomeric Sealant: Comply with ASTM C 920.
Acrylic-Based Solvent-Release Joint-Sealant: Comply with ASTM C1211.
Butyl-Rubber-Based Solvent-Release Joint-Sealant: Comply with ASTM C 1085.
Pigmented Narrow Joint Sealant: Provide manufacturer's standard, solvent-release-curing, pigmented, synthetic-rubber sealant comlying with AAMA 803.3 and formulated for sealing joints 3/16 inch or smaller in width.
Latex Sealant: Comply with ASTM C 834.
Acoustical Sealant for Exposed and Concealed Joints: Provide manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834 and ASTM E90.
Joint-Sealant Backing: Provide sealant backings of materail and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

SECTION 08115 – PACKAGED STEEL DOORS AND FRAMES:
Submit Product Data, Shop Drawings, and provide a schedule of doors and frames using same reference numbers for details and openings as those on the Contract Documents. Include details of each frame type, elevations of door design types, conditions at openings, details of construction, including glazing and glazing stops, location and installation requirements of finish hardware and reinforcement, and details of joints and connections.
Comply with NFPA 80 for fire-rated door assemblies. Provide assemblies identical to those tested per ASTM E 152; and labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction.

AVAILABLE MANUFACTURERS:
Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following: Total Door System; Openings, Inc.

MATERIALS:
Cold-Rolled Steel Sheets: Commercial-quality, level, carbon steel, complying with ASTM A 366.
Hot-Rolled Steel Sheets and Strips: Commercial-quality carbon steel, pickled and oiled, complying with ASTM A 569, free of scale, pitting, or surface defects.
Inserts, Bolts, and Fasteners: Manufacturer's standard units as applicable.
Shop-Applied Paint: Rust-inhibitive enamel or paint, either air-drying or baking, suitable as base for specified finish paints on steel surfaces.

DOOR OPENING ASSEMBLIES:
General: Provide flush design doors, 1-3/4 inches thick, seamless hollow construction, unless otherwise indicated.
Doors and Hardware: Provide as follows:
Construct of 18 gage, roller leveled, electrogalvanized and bonderized steel sheets with no seams or spot welds. Provide composite door construction, reinforced, stiffened, sound-deadened and insulated wit a core material bonded to both face sheets.
Reinforce doors with rigid tubular frame with stiles of 16 gage steel and 5-1/2 inch high wood rails.
Hinges: Manufacturer's standard pivoting and suspension mechanism.t
Performance test values of the hinges shall exceed the product standards for Class 1, 4 ball bearing butt hinges, as established by BHMA and ANSI A8111. Hinges, including hinge housing and hinge block, shall be the manufacturer's standard steel fabrication with standard black (EP-1) finish.
Locking Channels, Locking Bars and Strike Blocks: Manufacturer's standard latching and control machanism.
Performance test values of the mechanism shall exceed the product standards for Class 1 Series 1000 mortise locks, as established by BHMA and ANSI A156.2. Locking channels, including locking bars, shall be manufacturer's standard steel fabrications with standard black (EP-1) finish.
Exit Devices: Manufacturer's standard and labeled "Exit Hardware" devices, operated by panic bar inside and lever outside except where double egress doors are used with blank pull side. Finish of exit unit shall be US28 (satin anodized aluminum) with the lever to be US32D.
Kick plates for the push side of door leaves shall be manufacturer's standard 8 inch high with no surface screws.
Other Hardware: Closers and lock cylinders are furnished under Door Hardware.

FRAMES:
Fabricate frames of full-welded unit construction, with corners mitered, reinforced, continuously welded full depth and width of frame. Knock-down type frames are not acceptable.
Frames of minimum 14-gage galvanized steel sheets for exterior, and either cold or hot-rolled sheet steel of the following minimum gages for interior: Openings up to and including 4'-0" wide: 16 gage. Openings over 4'-0" wide: 14 gage.

Finish Hardware Reinforcement: Minimum gages of steel reinforcing plates for the following hardware:
Hinges and Pivots: 7 gage thick by 1-1/2 inches wide by 6 inches longer than hinge, secured by not less than 6 spot welds.
Strikes, Flush Bolts, and Closers: 12 gage.
Surface-Mounted Hold-Open Arms and Panic Devices: 12 gage.

Jamb Anchors: Furnish jamb anchors as required to secure frames to adjacent construction, formed of not less than 16-gage galvanized steel.
Masonry Construction: Adjustable, flat, corrugated, or perforated, t-shaped to suit frame size, with leg not less than 2-1/2 inches wide by 10 inches long. Furnish at least 3 anchors per jamb up to 7'-0" height; 4 anchors up to 8'-0" jamb height; one additional anchor for each 24 inches or fraction thereof over 8'-0" height.
Metal Stud Partitions: Insert type with notched clip to engage metal stud, welded to back of frames, minimum 18-gage. Provide at least 4 anchors for each jamb for frames up to 7'-0" in height; 5 anchors up to 8'-0" jamb height; one additional anchor each 24 inches or fraction thereof over 8'-0" height.

Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, formed of not less than 14-gage galvanized steel sheet, as follows:
Monolithic Concrete Slabs: Clip-type anchors, with 2 holes to receive fasteners, welded to bottom of jambs and mullions.
Separate Topping Concrete Slabs: Adjustable type with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at finish floor surface.

Head Anchors: Provide 2 anchors at head of frames exceeding 42 inches wide for frames mounted in steel stud walls.
Head Strut Supports: Provide 3/8-inch by 2-inch vertical steel struts extending from top of frame at each jamb to supporting construction above, unless frame is anchored to masonry or to other structural support at each jamb. Bend top of struts to provide flush contact for securing to supporting construction above. Provide adjustable wedged or bolted anchorage to frame jamb members in compliance with UL 63.
Structural Reinforcing Members: Provide as part of frame assembly, where indicated at mullions, transoms, or other locations that are to be built into frame.5-
Rubber Door Silencers: Except on weatherstripped doors, drill stop in strike jamb to receive 3 silencers on single-door frames and drill head jamb stop to receive 4 silencers on double-door frames. Install plastic plugs to keep holes clear during construction.
Plaster Guards: Provide 26-gage steel plaster guards or dust cover boxes, welded to frame, at back of finish hardware cutouts where mortar or other materials might obstruct hardware operation and to close off interior of openings.

STOPS AND MOLDINGS:
Provide stops and moldings around solid, glazed panels where indicated.
Form fixed stops and moldings integral with frame, unless otherwise indicated.
Provide removable stops and moldings where indicated or required, formed of not less than 18-gage steel sheets matching steel of frames. Secure with countersunk flat or oval head machine screws spaced uniformly not more than 12 inches o.c. Form corners with butted hairline joints.
Coordinate width of rabbet between fixed and removable stops with type of glass or panel and type of installation indicated.oor le

FABRICATION, GENERAL
Fabricate units to be rigid, neat in appearance, and free from defects, warp, or buckle. Accurately form metal to required sizes and profiles. Wherever practicable, fit and assemble units in the manufacturer's plant. Clearly identify work that cannot be permanently factory-assembled before shipment, to assure proper assembly at the project site. Weld exposed joints continuously; grind, fill, dress, and make smooth, flush, and invisible. Doors: Minimum 18-gage face sheets.
Exposed Fasteners: Unless otherwise indicated, provide countersunk flat or oval heads for exposed screws and bolts.
Finish Hardware Preparation: As follows: Prepare doors and frames to receive finish hardware, including cutouts, reinforcing, mortising, drilling, and tapping in accordance with final Finish Hardware Schedule and templates provided by hardware supplier. Comply with applicable requirements of ANSI A115 series specifications for door and frame preparation for hardware. Reinforce doors and frames to receive surface-applied hardware. Drilling and tapping for surface-applied finish hardware may be done at project site.
Shop Painting: Clean, treat, and paint exposed surfaces of doors and frames, including galvanized surfaces. Clean steel surfaces of mill scale, rust, oil, grease, dirt, and other foreign materials before application of paint. Apply pretreatment to cleaned metal surfaces, using cold phosphate solution (SSPC-PT2), hot phosphate solution (SSPC-PT4), or basic zinc chromate-vinyl butyryl solution (SSPC-PT3). Apply shop coat of electrostatically sprayed acrylic modified prime paint within time limits recommended by pretreatment manufacturer. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 1 mils.

PREPARATION:
Determine frame openings to be within the following tolerances:
Width: Plus or minus 3/16 inch.
Height: Plus 0, minus 3/16 inch.
Bow (jambs in or out): Plus or minus 1/8 inch (this tolerance is not additive to the width tolerance).
Level: Plus or minus 1/8 inch maximum deviation of head of frame from level.
Plumb: Plus or minus 3/16 inch maximum deviation of jambs from true vertical (this tolerance is not additive to the width or bow tolerance).

INSTALLATION:
Frames: Provide frames for doors of size and profile as indicated.
Install frames and accessories in accordance with shop drawings, manufacturer's data, and as herein specified.
Setting Masonry Anchorage Devices: Provide masonry anchorage devices where required for securing frames to in-place concrete or masonry construction. Set anchorage devices opposite each anchor location, in accordance with details on final shop drawings and anchorage device manufacturer's instructions. Leave drilled holes rough, not reamed, and free from dust and debris.
Floor anchors may be set with powder-actuated fasteners instead of masonry anchorage devices and machine screws, if so indicated on final shop drawings.
Placing Frames: Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces and spreaders, leaving surfaces smooth and undamaged. At in-place concrete or masonry construction, set frames and secure in place with machine screws and masonry anchorage devices. Place frames at fire-rated openings in accordance with NFPA Standard No. 80.
Place fire-rated doors with clearances as specified in NFPA Standard No. 80.
Secure thresholds securely anchored to the concrete slab with no interference with the threshold strike lip.

ADJUST AND CLEAN:
Final Adjustments: Check and readjust operating hardware items just prior to final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including doors or frames that are warped, bowed, or otherwise unacceptable.
Prime Coat Touch-Up: Immediately after erection, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.

10-490136

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

DAVIS PARTNERSHIP ARCHITECTS

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Denver, CO 80205 303.861.8555

Vail | 0225 Main Street, Unit C101
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Consultant

STATE OF COLORADO
BRIAN WILLIAM ERICKSON
304813
8.2.10
LICENSED ARCHITECT

Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.19.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
SPECIFICATIONS 1

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
G-101

DPA Project: 10814.00

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SECTION 08125 – INTERIOR ALUMINUM FRAMES:
Submit Product Data, Shop Drawings, and provide a schedule of doors and frames using same reference numbers for details and openings as those on the Contract Documents. Include details of each frame type, elevations of door design types, conditions at openings, details of construction, including glazing and glazing stops, location and installation requirements of finish hardware and reinforcement, and details of joints and connections.
Comply with NFPA 80 for fire-rated door assemblies. Provide assemblies identical to those tested per NFPA 252; and labeled and listed by UL, I.C.B.O., Warnock Hersey, or Factory Mutual Label.

MANUFACTURERS:
Subject to compliance with requirements, provide products by the following or approved equal: Modulex, Inc.

MATERIALS:
Extruded Aluminum: ASTM B 21 (ASTM B 221M) alloy 6063–T5 or alloy and temper required to suit structural and finish requirements.

COMPONENTS:
Provide interior aluminum frame components that comply with dimensions, profiles, and relationships to adjoining work of components indicated on Drawings
Door Frames: Extruded aluminum, not less than 0.062 inch thick, reinforced for hinges and strikes.
Glass Frames: Extruded aluminum, not less than 0.062 inch, designed for glass thickness indicated.
Ceiling Tracks: Extruded aluminum, not less than 0.062 inch(1.6 mm) thick.
Trim: Extruded aluminum, not less than 0.062 inch(1.6 mm) thick, removable snap-in glass stops and door stops without exposed fasteners.

ACCESSORIES:
Fasteners: Aluminum, nonmagnetic stainless-steel or other noncorrosive metal fasteners compatible with frames, stops, panels, reinforcement plates, hardware, anchors, and other items being fastened.
Door Silencers (Mutes): Manufacturer's standard mohair or vinyl.
Glazing Gaskets: Manufacturer's standard extruded or molded plastic, to accommodate 6-mm thick glass.
Glazing: As specified in Division 8 Section "Glazing."
Hardware: As specified in Division 8 Section "Door Hardware."

FABRICATION:
Machine jambs and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required, and fastened within frame with concealed screws.
Provide concealed corner reinforcements and alignment clips for precise butt or mitered connections.
Fabricate frames for glass to allow glass replacement without dismantling frame.
Fabricate all components to allow secure installation without exposed fasteners.

ALUMINUM FINISHES:
General: Comply with NAAMM's "Metal Finishes Manual for Archtiectural and Metal Products" for recommendations for applying and designating finishes. Finish designation prefixed by AA complies with the system established by the Aluminum Association for designating aluminum finishes.
Provide Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 607.1.

EXAMINATION:
Examine walls, floors, and ceilings for suitable conditions where interior aluminum frames are to be installed.
Verify that wall thickness does not exceed standard tolerances allowed by throat size indicated.
Proceed with installation only after unsatisfactory conditions have been corrected.

INSTALLATION:
Comply with frame manufacturer's written installation instructions and approved Shop Drawings.
Install frames plumb and square, securely anchored to substrates with fasteners recommended by frame manufacturer.
Install partition components in the longest possible lengths; components up to 48 inches(1200 mm) long must be one piece. Fasten to suspended ceiling grid on maximum 48-inch(1200-mm) centers, using sheet metal screws or other fasteners approved by frame manufacturer. Use concealed installation clips to ensure that splices and connections are tightly butted and properly aligned. Secure clips to main structural extrusion components and not to snap-in or trim members. Do not leave screws or other fasteners exposed to view when installation is complete.

CLEANING AND ADJUSTING:
Clean exposed frames promptly after installation, using cleaning methods recommended by frame manufacturer.
Touch up marred areas so touchup is not visible from a distance of 48 inches(1200 mm). Remove and replace frames with damaged finish that cannot be satisfactorily repaired.
Final Operating Adjustments: Check hardware at all openings for proper operation of doors, making final corrections as required to assure that work of this section is complete and undamaged.

PROTECTION:
Provide protection required to ensure that framing will be without damage or deterioration on Substantial Completion.

SECTION 08211 – FLUSH WOOD DOORS:
Submit Product Data and provide a schedule of doors using same reference numbers as those on the Contract Documents. Include elevations of door design types, product data for each type of door, including details of core and edge construction, trim for openings and factory-finishing specifications. Submit samples for verification in the form of manufacturer's standard sample units for faces of factory-finished doors with transparent finish.
Comply with the following standards:
NWWDA Quality Standard: I.S.1-A, "Architectural Wood Flush Doors," of the National Wood Window and Door Association.
AWI Quality Standard: "Architectural Woodwork Quality Standards" of the Architectural Woodwork Institute for grade of door, core, construction, finish, and other requirements.
Fire-Rated Wood Doors: Comply with NFPA 80 for fire-rated door assemblies. Provide assemblies identical to those tested per ASTM E 152; and labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction.
General Warranty: Door manufacturer's warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
Door Manufacturer's Warranty: Submit on door manufacturer's standard Contractor, agreeing to repair or replace defective doors that have warped (bow, cup, or twist) more than 1/4 inch (6.35 mm) in a 42-by-84-inch (1067-by-2134-mm) section or that show telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch (0.25 mm in a 75-mm) span, or do not conform to tolerance limitations of referenced quality standards.
Warranty shall be in effect during the following period of time after date of Substantial Completion. Solid Core Interior Doors: Life of installation.

AVAILABLE MANUFACTURERS:
Subject to compliance with requirements, manufacturers offering solid core doors that may be incorporated in the Work include, but are limited to, the following: Algoma Hardwoods Inc.; Buell Door Co.; Eggers Industries, Architectural Door Division; Ideal Wood Products, Inc.; Weyerhauser Co.; VT Industries.

INTERIOR FLUSH WOOD DOORS:
Solid Core Doors with Transparent Finish: Plain slice W1 finish, select white maple face veneer; Premium grade; 5-ply construction; with particleboard core.
Fire-Rated Solid Core Doors: Provide faces and grade to match non-fire-rated doors in same area of building, unless otherwise indicated. Subject to approval, manufacturers standard core construction as required to provide fire-resistance rating indicated. Provide approved manufacturers standard composite blocking designed to maintain fire resistance of door but with improved screw-holding capacity of same thickness as core. For doors with mineral core provide blocking for all surface mounted hardware. Provide fire-rated pairs with fire-retardant stiles that are labeled and listed for kinds of applications indicated without formed-steel edges and astragals. When unable to be implement the preceding furnish formed-steel edges and astragals.

VENEER MATCHING:
Within Door Faces: Provide doors with Book matching.
Pairs and Sets: Provide pair and set matching.

LIGHT FRAMES:
Wood-Veneered Beads for Light Openings in Fire Doors: Manufacturer's standard wood-veneered steel beads matching veneer species of door faces and approved for use in doors of fire-rating indicated.

FABRICATION:
Fabricate flush wood doors to comply with following requirements:
In sizes indicated. Comply with clearance requirements of referenced quality standard for fitting. Comply with requirements of NFPA 80 for fire-resistance-rated doors.
Factory machine doors for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3. Comply with final hardware schedules, door frame shop drawings, DHI A115-W series standards, and hardware templates. Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before proceeding with factory machining.
Prefit Dimensions:
Width: 3/16-inch beveled two edges.
Head: 1/8-inch.
Undercut: 5/8-inch.
Metal Astragals: If required, premachine astragals and formed-steel edges for hardware for pairs of fire-rated doors.
Openings: Cut and trim openings through doors to comply with applicable requirements of referenced standards for kind(s) of door(s) required. Light Openings: Trim openings with moldings of both metal and wood, and profile as selected by Architect from manufacturer's standard range of options.

FINISHING:
General: Comply with referenced quality standard's requirements for factory finishing.
Finish wood doors in field unless standard stain will match existing doors.
Transparent Finish: Comply with requirements indicated for grade, finish system, staining effect, and sheen.
Grade: Premium.
Finish: AWI System TR-6.
Staining: Clear stain to match doors in core and shell.
Sheen: Satin.

EXAMINATION:
Examine installed door frames prior to hanging door: Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads. Do not proceed with installation until unsatisfactory conditions have been corrected.

INSTALLATION:
Hardware: For installation see Section "Door Hardware."
Install wood doors to comply with manufacturer's instructions and referenced quality standard and as indicated.
Install fire-rated doors in corresponding fire-rated frames according to requirements of NFPA 80.
Doors: Install flush wood doors immediately before Substantial Completion.

ADJUSTING AND PROTECTION:
Protect doors as recommended by door manufacturer to ensure that wood doors will be without damage or deterioration at the time of Substantial Completion.
Finished Doors: Refinish or replace doors damaged during installation.

SECTION 08311 – ACCESS DOORS AND PANELS:
Submit Product Data.
Where fire-rated access doors are required, provide doors that comply with NFPA 80, are identical to door and frame assemblies tested for fire-rest-response characteristics per ASTM E 152 for vertical installation and ASTM E 119 for horizontal installations and are labeled and listed by UL, Warnock Heresy, or another testing and inspecting agency acceptable to authorities having jurisdiction.
Steel Sheet: ASTM A 366 commercial-quality, cold-rolled steel sheet with baked-on, rust-inhibitive primer.
Trimless, Flush Access Doors for Gypsum Board: Units consisting of frame, concealed edge trim, door hardware, and complying with the following requirements:
Frame: 0.0598-inch thick steel sheet.
Door: 0.047-inch thick steel sheet.
Concealed, Gypsum Board Edge Trim: 0.0299-inch zinc-coated or galvanized-steel sheet with face flange formed to receive joint compound.
Hinge: Concealed spring pin or continuous type.
Locks: Screwdriver-operated cam.

SECTION 08350 – ACCORDION FOLDING PARTITIONS:
Submit product data.

GENERAL CONDITIONS:
Furnish and install accordion partitions as indicated on drawings.
Manufacturers wishing to bid products other than the product specified herein shall submit to the architect, 10 days prior to bidding, a list of three (3) past installations of products similar to those listed. Complete catalog data, along with deviations from the product specified, shall be noted in the submittal to the architect. The manufacturer guarantees the proposed substituted product to comply with the product specified and as detailed on the drawings, unless the deviations are so noted in the submittal for approval.
Complete shop drawings shall be provided prior to fabrication, indicating construction and installation details. Shop drawings shall be submitted within 60 days after receipt of signed contract.
Related work by general contractor (and/or specified in other sections):
Paint or otherwise finishing all trim and other materials adjoining head and jamb of folding partitions.
All header, blocking support structure, jambs, track enclosures, surrounding insulation, sound baffles and trim as required or installation of folding partition.
Prepunching of support structure in accordance with approved shop drawings.
Prepare the opening to dimensions specified, plumb, level, and in accordance to building practices.

PRODUCT:
Product: SoundMaster Model SM 8, as manufactured by Modernfold and furnished and installed by an authorized distributor.
Operation: Partition shall be manual, top supported accordion folding.
Construction: Frame shall consist of steel hinge plates welded to 5mm (.1875") diameter vertical steel rods. Single row at bottom, intermediate rows approximately 1067mm (42") on center, single row at top (over 3048mm (10'-0") high, double-truss row at top). Trolley pin of high tensile alloy steel, to be encased in structural hinge plate channel.
Options: No options.
Finish: Outer covering shall be Modernfold heavy-duty vinyl with woven fiber backing. Outer covering shall be Class "A" flame spread rated.
Suspension System: Track shall be continuous C-channel shape track, connected to the structural support. Frame shall be supported by ball bearing trolley assemblies.
Sound Insulation: 24 ga., V-grooved steel panels and heavy duty flame resistant acoustical membrane. Each panel attaches to the frame with steel leaf fasteners.
Sound Seals: Shall be pairs of three-layer flexible sweep strips at the top and bottom. Vertical female sound channel shall be polyurethane foam lined.
Air Release System: Air trapped within the partition shall be released, during entire stacking operation, through 10mm (.375") dia. holes, which comprise a minimum of 5% lead post area.
Laboratory Acoustical Performance: Laboratory acoustical performance of the folding partition shall have been tested in an independent acoustical laboratory in accordance with ASTM E90 test procedure and shall have attained an STC of no less than 39. A written test report, by the test facility, shall be available upon request.
Hardware: Grip type hand pulls shall be die cast zinc, powder coat paint finish, and include a thumb release latch mechanism. Extruded aluminum or plastic hand pulls shall not be accepted.

INSTALLATION AND EXECUTION:
Preparation of opening shall be by the general contractor. Any deviation in site conditions contrary to approved shop drawings shall be called to the attention of the architect.
Delivery to the job site shall be coordinated by the general contractor. Proper storage of partitions before installation and continued protection during and after installation shall be the responsibility of the general contractor.
Installation shall be by a local Modernfold authorized factory trained installer. Installation shall be in accordance with approved shop drawings.
Installation shall be guaranteed for one (1) year against defects in material and workmanship.

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SECTION 08710 – DOOR HARDWARE:
Submit copies of finish hardware schedule in accordance with Division 1, General Requirements.

SCHEDULES AND PRODUCT DATA:
Schedules to be in vertical format, listing each door opening, and organized into "hardware sets" indicating complete designations of every item required for each door opening to function as intended. Hardware schedule shall be submitted within two (2) weeks from date the purchase order is received by the finish hardware supplier. Furnish four (4) copies of revised schedules after approval for field and file use. Note any special mounting instructions or requirements with the hardware schedule. Schedules to include the following information:
Location of each hardware set cross-referenced to indications on drawings, both on floor plans and in door and frame schedule.
Handing and degree of swing of each door.
Door and frame sizes and materials.
Keying information.
Type, style, function, size, and finish of each hardware item.
Elevation drawings and operational descriptions for all electronic openings.
Name and manufacturer of each hardware item.
Fastenings and other pertinent information.
Explanation of all abbreviations, symbols and codes contained in schedule.
Mounting locations for hardware when varies from standard.

Submit catalog cuts and/or product data sheets for all scheduled finish hardware.
Submit separate detailed keying schedule for approval indicating clearly how the owner's final instructions on keying of locks has been fulfilled.

TEMPLATES:
Furnish a complete list and suitable templates, together with finish hardware schedule to contractor, for distribution to necessary trades supplying materials to be prepped for finish hardware.

ELECTRONIC HARDWARE SYSTEMS:
Provide complete wiring diagrams prepared by an authorized factory employee for each opening requiring electronic hardware, except openings where only magnetic hold-open devices are specified. Provide a copy with each hardware schedule submitted after approval.
Provide complete operational descriptions of electronic components listed by opening in the hardware submittals. Operational descriptions to detail how each electrical component functions within the opening incorporating all conditions of ingress and egress. Provide a copy with each hardware schedule submitted for approval.
Provide elevation drawings of electronic hardware and systems identifying locations of the system components with respect to their placement in the door opening. Provide a copy with each hardware schedule submitted for approval.
Prior to installation of electronic hardware, arrange conference between supplier, installers and related trades to review materials, procedures and coordinating related work.
The electrical products contained within this specification represent a complete engineered system. If alternate electrical products are submitted, it is the responsibility of the distributor to bear the cost of providing a complete and working system including re-engineering of electrical diagrams and system layout, as well as power supplies, power transfers and all required electrical components. Coordinate with electrical engineer and electrician to ensure that line voltage and low voltage wiring is coordinated to provide a complete and working system.

OPERATIONS AND MAINTENANCE MANUALS:
Upon completion of construction and building turnover, furnish two (2) complete maintenance manuals to the owner. Manuals to include the following items:
Approved hardware schedule, catalog cuts and keying schedule.
Hardware installation and adjustment instructions.
Manufacturer's written warranty information.
Wiring diagrams, elevation drawings and operational descriptions for all electronic openings.

SUPPLIER QUALIFICATIONS:
A recognized architectural door hardware supplier who has maintained an office and has been furnishing hardware in the project's vicinity for a period of at least two (2) years.
Hardware supplier shall have office and warehouse facilities to accommodate this project.
Hardware supplier shall have in his employment at lease one (1) Architectural Hardware Consultant (AHC) who is available at reasonable times during business hours for consultation about the project's hardware and requirements to the owner, architect and contractor.
Hardware supplier must be an authorized factory distributor of all products specified herein.

FIRE-RATED OPENINGS:
Provide door hardware for fire-rated openings that comply with NFPA80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed by Underwriter's Laboratories (UL) or Warnock Hersey (WH) for use on types and sizes of doors indicated.
Project requires door assemblies and components that are compliant with positive pressure and S-label requirements. Specifications must be cross-referenced and coordinated with door manufacturers to ensure that total opening engineering is compatible with UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and UBC 7-2, Fire Tests of Door Assemblies.
Certification(s) of compliance shall be made available upon request by the Authority Having Jurisdiction.

WARRANTY:
All items, except as noted below, shall be warranted in writing by the manufacturer against failure due to defective materials and workmanship for a minimum period of one (1) year commencing on the date of final completion and acceptance. In the event of product failure, promptly repair or replace item with no additional cost to the owner.
Mortise locksets: Five (5) years
Exit Devices: Five (5) years
Door closers: Ten (10) years

MANUFACTURERS:
Only manufacturers as listed below shall be accepted. Obtain each type of finish hardware (hinges, latch and locksets, exit devices, door closers, etc.) from a single manufacturer.

SCREWS AND FASTENERS:
All required screws shall be supplied as necessary for securing finish hardware in the appropriate manner. Thru-bolts shall be supplied for exit devices and door closers where required by code and the appropriate blocking or reinforcing is not present in the door to preclude their use.

HINGES:
Hinges shall conform to ANSI A156.1 and be three-knuckle design, ball bearing as specified with NRP (non-removable pin) feature, at all exterior reverse bevel doors. Unless otherwise scheduled, supply one (1) hinge for every 30" of door height. Hinges shall generally be 4 1/2" x 4 1/2", except at doors exceeding 36" in width where 5" x 4 1/2" hinges shall be provided. Heavy weight hinges (.180) shall be supplied at all high traffic doors where specified. Provide hinges with phillips flat-head screws unless specified otherwise.
Specified Manufacturer: McKinney
Approved Substitutes: Hager, Stanley

MONITORING SWITCH HINGES:
Monitoring switch hinges to be magnetic reed, concealed, adjustable switch type with extra heavy magnet.
Specified Manufacturer: McKinney MM Series
Approved Substitutes: Hager EMN Series, Stanley CS Series

PIVOTS:
All pivots shall conform to ANSI 156.4 Grade 1 and shall have oil impregnated bronze bearing in the top pivot and a radial roller and thrust bearing in the bottom pivot. The bottom pivot shall carry the full weight of the door.
Specified Manufacturer: Rixson
Approved Substitutes: Dor-O-Matic

CYLINDERS:
Where specified, high security cylinders shall be supplied. Provide Patented High security keys able to operate both the appropriate conventional and high security cylinder within the same master key system while the keys for the conventional cylinders will not operate the high security cylinders. The high security cylinder can be easily re-configured by the Owner to void existing keys without disturbing the pinning of the master key system. If the master key system is compromised by the loss of a top-level master key, the system can be changed through a simple realignment of the barrel/plug components. The existing keys are then voided from operating the cylinder. Stamp all change keys with keyset symbol (VKC), but do not stamp with key section or bitting number.valv
Specified Manufacturer: Best Access Systems.

KEYING:
All locks and cylinders shall be construction master-keyed. All locks and cylinders to be master-keyed or grandmaster-keyed to coordinate with Building Core/Shell and Hospital, as directed by the Owner. The factory shall key all locks and cylinders. Furnish the following key amounts:
Two (2) change keys per lock
Three (3) grand master keys
Six (6) master keys per master level
Fifteen (15) construction/temporary keys
Master keys and all high-security or restricted keyway blanks shall be sealed in tamper-proof packaged boxes when shipped from the factory. The boxes shall be shrink wrapped and imprinted to ensure the integrity of the packaging.

MORTISE LOCKSETS:
All locksets shall be ANSI 156.13 Series 1000 Grade 1. All functions shall be manufactured in a single sized case formed from 12 gauge steel minimum. The lockset shall have a field-adjustable, beveled armored front, with a .125" minimum thickness and shall be reversible without opening the lock body. The lockset shall be 23/4" backset with a one-piece 3/4" anti-friction stainless steel latchbolt. The deadbolt shall be a full 1" throw made of stainless steel and have 2 hardened steel roller inserts. All strikes shall be non-handed with a curved lip. To insure proper alignment, all trim, shall be thru-bolted and fully interchangeable between rose and escutcheon designs.
Specified Manufacturer: Sargent 8200 Series

MECHANICAL PUSHBUTTON LOCKS:
Specifed manufacturer: Simplex 5000 Series or equal to match building standard hardware.

SURFACE MOUNTED STRIKES:
All electric strikes shall meet BHMA standard 501, grade 1 and be UL Listed for Burglary Resistance, category 1034. Strikes shall have two heavy-duty, stainless steel locking mechanisms operating independently to provide tamper resistance. Optional latchbolt and latchbolt strike monitoring that indicates position of the latchbolt and locked condition of the strike shall be available. Strikes shall have been tested for a minimum of 500,000 operating cycles.
Specified Manufacturers: HES 9600 Genesis
Approved Substitutes: NONE

EXIT DEVICES:
All exit devices shall be certified to meet ANSI/BHMA A156.3 Grade 1 requirements and shall be listed by Underwriters Laboratories and bear the UL label for life safety in full compliance with NFPA 80 and NFPA 101. Mounting rails shall be formed from a solid single piece of stainless steel, brass or bronze no less than 0.072" thick. Push rails shall be constructed of 0.062" thick material. Painted or anodized aluminum shall not be considered heavy duty and are not acceptable. Hex key dogging shall be standard for all life safety panic hardware. Lever trim shall be available in finishes and designs to match that of the specified locksets.
Specified Manufacturer: Von Duprin 98 Series

SURFACE MOUNTED CLOSERS – HEAVY DUTY:
All closers shall have non-ferrous covers, aluminum alloy bodies, forged steel arms, and separate valves for adjusting backcheck, closing and latching cycles and adjustable spring to provide up to 50% increase in spring power. Closers shall be constructed with a one-piece body. Closers shall be furnished with parallel arms mounting on all doors opening into corridors or other public spaces and shall be mounted to permit 180 degrees door swing wherever wall conditions permit. Furnish with non-hold open arms unless otherwise indicated. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
Specified Manufacturer: Sargent 351 Series
Approved Substitutes: Norton 7500 Series

SURFACE MOUNTED CLOSERS – STANDARD DUTY:
All closers shall be of full rack and pinion construction with separate valves for controlling closing and latching speed and backcheck. Backcheck and delayed action feature (where specified) shall be provided with a standard pressure relief valve to protect the door from excessive force. Handicap closers shall be adjustable for opening forces to comply with ANSI A117.1 and ADA. The one-piece closer body shall be manufactured of high-performance cast aluminum silicon alloy.
Specified Manufacturer: Sargent 1430 Series
Approved Substitutes: Norton 8500 Series

AUTOMATIC DOOR OPERATORS:
Low energy door operators shall satisfy all code requirements set forth in ANSI/BHMA standard A156.19 and meet UL, cUL, UL10C and UL10B standards for use on fire doors. Units shall have adjustments for door closing force and backcheck, motor assist from 0 to 30 seconds, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay up to 30 seconds. Operator units shall provide conventional door closer opening and closing forces unless the power operator motor is activated by an initiating device with door closer assembly having adjustable spring size, backcheck valve, sweep valve, latch valve, speed control valve, and pressure adjustment valve to control door closing. Operators shall have push and go function to activate power operator or power assist functions. Units shall have a presence detector input to prevent a closed door from opening or a door that is fully opened from closing and shall have a holdopen toggle input to allow remote activation for indefinite hold open; door shall close the seond time the input is activated. Operators shall have a SPDT relay for interfacing with latching or locking devices. All controlling operator switches shall be of radio-frequency design and not hard-wired.
Specified Manufacturer: Sargent MPower 4000 Series
Approved Substitutes: Norton 6900 Series

DOOR TRIM AND PROTECTIVE PLATES:
Kick plates shall be .050 gauges and two (2) inches less full width of door, or as specified. Push plates, pull plates, door pulls and miscellaneous door trim shall be as shown in the hardware schedule.
Specified Manufacturer: Rockwood
Approved Substitutes: Hager, Ives, Trimco

WALL MOUNTED DOOR STOPS:
Where a door is indicated on the plans to strike flush against a wall, wall bumpers shall be provided. Provide convex or concave design as indicated.
Specified Manufacturers: Rockwood
Approved Substitutes: Hager, Ives, Trimco

OVERHEAD STOPS/HOLDERS:
Where specified, overhead stops as shown in the hardware sets are to be provided. Track, slide, arm and jamb bracket shall be constructed of extruded bronze and shock absorber spring shall be of heavy tempered steel. Overhead stops shall be of non-handed design.
Specified Manufacturers: Sargent 1540/590 Series
Approved Substitutes: Rixson 10/9 Series

GASKETING AND THRESHOLDS:
Provide continuous weatherseal on exterior doors and smoke, light, or sound seals on interior doors where indicated or scheduled. Provide intumescent seals as required to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and UBC 7-2, Fire Tests of Door Assemblies. Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by manufacturer.
Provide threshold units not less than 4" wide, formed to accommodate change in floor elevation where indicated, fabricated to accommodate door hardware and to fit door frames. All threshold units shall comply with the Americans with Disabilities Act (ADA.)
Specified Manufacturers: Pemko
Approved Substitutes: Hager, National Guard, Zero

SILENCERS:
Furnish rubber door silencers equal to Trimco 1229A for all new interior hollow metal frames, two (2) per pair and three (3) per single door frame, and Trimco 1229B for all wood frames.

FINISHES:
The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 including coordination with traditional U.S. finishes shown by certain manufacturers for their products.
Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

EXAMINATION:
Contractor shall ensure that the building is secured and free from weather elements prior to installing interior door hardware. Examine hardware before installation to ensure it is free of defects.

SECTION 08710 – DOOR HARDWARE (CONT.):
INSTALLATION:
Mount hardware units at heights indicated in the following applicable publications, except as specifically indicated or required to comply with the governing regulations.
"Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute (DHI.)
NWWDA Industry Standard I.S.1.7, "Hardware Locations for Wood Flush Doors."
All hardware shall be applied and installed in accordance with best trade practice by an experienced hardware installer. Care shall be exercised not to mar or damage adjacent work.
Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.
Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

FIELD QUALITY CONTROL:
The hardware supplier shall do a final inspection prior to building completion to ensure that all hardware was correctly installed and is in proper working order.

ADJUSTING, CLEANING, AND DEMONSTRATING:
Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore to proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
Instruct owner's personnel in the proper adjustment and maintenance of door hardware and hardware finishes and usage of any electronic devices.

HARDWARE SCHEDULE:
Please refer to the drawings for information pertaining to hardware groups and schedule.

SECTION 08800 – GLAZING:
SYSTEM PERFORMANCE REQUIREMENTS:
Provide glazing systems that are produced, fabricated, and installed to withstand normal thermal movement, wind loading, and impact loading (where applicable), without failure including loss or glass breakage attributable to the following: defective manufacture, fabrication, and installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; and other defects in construction.

Submit product data for each glass product and glazing material indicated.
Submit Samples for verification purposes of 12-inch square samples of each type of glass indicated except for clear monolithic glass products, and 12-inch long samples of each color required (except black) for each type of sealant or gasket exposed to view. Install sealant or gasket sample between two strips of material representative in color of the adjoining framing system.

QUALITY ASSURANCE:
Comply with published recommendations of glass product manufacturers and organizations below, except where more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
FGMA Publications: "FGMA Glazing Manual."
SIGMA Publications: TM-3000 "Vertical Glazing Guidelines".
Safety Glass: Products complying with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for Category II materials. Subject to compliance with requirements, provide safety glass permanently marked with certification label of Safety Glazing Certification Council (SGCC) or other certification agency acceptable to authorities having jurisdiction.
Fire-Resistive Glazing Products for Door Assemblies: Products identical to those tested per ASTM E 152, labeled and listed by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
Fire-Resistive Glazing Products for Window Assemblies: Products identical to those tested per ASTM E 163, labeled and listed by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

PRODUCTS:
Primary Clear Float Glass Products: Uncoated clear glass for monolithic glazing.
Primary Clear Float Glass Locations: At vestibule doors, sidelights and storefront not exposed to exterior; at interior vision (borrowed) lites not required to be safety glazing or fire-rated.
Uncoated, Clear, Heat-Treated Float Glass: ASTM C 1048, Condition A (uncoated surfaces), Type I (transparent glass, flat), Class 1 (clear), Quality q3 (glazing select), kind as indicated below:
Kind HS (heat strengthened) where recommended by manufacturer to comply with system performance requirements specified.
Kind FT (fully tempered) where safety glass is designated or required.

Wired Glass: ASTM C 1036, Type II (patterned and wired glass, flat), Class 1 (clear), Quality q8 (glazing); 6.4 mm thick; of form and mesh pattern indicated below:
Polished Wired Glass: Form 1 (wired, polished both sides), and as follows: Mesh m2 (square).
Manufacturers: Subject to compliance with requirements, provide wired glass by one of the following companies: Ashai Glass Co.; Central Glass Co., Ltd.; Nippon Sheet Glass Ltd.; Pilkington Sales (North America) Ltd.

Laminated Ceramic Glazing Material: Proprietary product in the form of two lites of clear ceramic glazing material laminated together to produce a laminated lite of 5/16-inch (8-mm) nominal thickness; polished on both surfaces; weighing 4 lb/sq. ft. (19.5 kg/sq. m); and as follows:
Fire-Protection Rating: As indicated for the assembly in which the glazing material is installed, and permanently labeled by a testing and inspecting agency acceptable to authorities having jurisdiction. Polished on both surfaces, transparent.
Product: Subject to compliance with requirements, provide "FireLite Plus" manufactured by Nippon Electric Glass Co., Ltd. and distributed by Technical Glass Products.

Elastomeric Glazing Sealant Standard: Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer indicated that comply with ASTM C 920 requirements, including those referencing ASTM classifications for Type, Grade, Class and Uses.

SECTION 09260 GYPSUM BOARD ASSEMBLIES:
Where fire-resistance-rated assemblies are required, provide materials and construction identical to assemblies tested according to ASTM E 119 by and independent testing and inspecting agency acceptable to authorities having jurisdiction.

Where STC-rated assemblies are required, provide materials and construction identical to assemblies whose STC rating were determined according to ASTM E 90 and classified according to ASTM E 413 by a qualified independent testing agency.

METAL FRAMING AND SUPPORTS:
Steel framing components for suspended and furred ceilings complying with ASTM C 645 and ASTM C 754.
Wire Ties: ASTM A 641 (ASTM A 641M), Class 1 zinc coating, soft temper, 0.062-inch thick.
Hangers: Wire, ASTM A 641 (ASTM A 641M), Class 1 zinc coating, soft temper, 0.162-inch diameter.
Carrying Channels: Cold-rolled steel, 0.0538 inch thick, minumum 1/2-inch-wide flange, 1-½ deep, with ASTM A 653/A 653M, G60 (Z180), hot-dip galvanized zinc coating.
All metal framing shall be from commercial-steel sheet with ASTM A 653/A 653M, G60 (Z180), hot-dip galvanized zinc coating:
Cold Rolled Channels: 0.0538 inch thick, minumum 1/2-inch-wide flange, ¾ inch deep.
Steel Studs: 0.0179 inch thick, 2-½ inches deep, complying with ASTM C 645.
Hat-Shaped, Rigid Furring Channels: 0.0179-inch thick, ⅞ inch deep, complying with ASTM C 645.
Steel Studs and Runners: 0.0179 inch thick, 3-5/8 inches deep unless noted otherwise, complying with ASTM C 645
Deep-Leg Deflection Track: ASTM C 645 top runner with 2-inch- (50.8-mm-) deep flanges.
Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated. 0.0598 inch thick for use in fire rated wall assemblies with 2 hour rating or greater.
Cold-Rolled Channel Bridging: 0.0538-inch thick, with minimum 1/2-inch-wide flange, 1-1/2 inches deep
Clip Angle: 0.068-inch- (1.73-mm-) thick, 1-1/2 by 1-1/2 inch, galvanized steel.
Provide double 16 gage studs at each door jamb, stitch welded.
At perimeter of building, all partitions shall be centered on window mullions or column centerlines unless otherwise indicated.
Alignment of finished face of partition with finished face of existing column or partition is indicated on the drawing by the note "align."

GYPSUM BOARD:
Gypsum Wallboard: ASTM C 36, in 5/8" thickness, unless otherwise indicated, with manufacturer's standard edges.
Regular Type, and Type X where required for fire-resistance-rated assemblies.
Water Resistant Gypsum Wallboard, complying with ASTM C 630/C 630M or Glass-Mat, Water-Resistant Backing Board, complying with ASTM C 1178/C 1178M to be installed in toilet rooms, and as backer board for ceramic wall tile application.

ACCESSORIES:
Accessories for Interior Installation: Cornerbead, edge trim, and control joints complying with ASTM C 1047, formed from steel sheet zinc coated by hot-dip process or rolled zinc.
Tenant interior walls that intersect with interior windows shall occur at a vertical mullion only with clear anodized aluminum end caps to match building standard window frames and sills.

FINISHING GYPSUM BOARD ASSEMBLIES:
In accordance with GA-214; Level 4 finish, unless otherwise indicated; Level 1 finish for concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies; and Level 2 finish where panels form substrates for tile.

SECTION 09310 – CERAMIC TILE:
Refer to finish schedule and master finish legend for product information. Refer to interior elevations for tile patterns, etc.
Furnish not less than 3 percent extra of amount of materials installed, full-size units, for each type, composition, color, pattern, and size indicated.
General: Comply with Tile Council of America standards for installation.

SECTION 09511 – ACOUSTICAL PANEL CEILINGS:
Refer to finish schedule.
Submit product data for each type of product specfied.
Submit samples for verification in sets for each color, texture, and pattern specified, showing the full range of variations expected in these characteristics:
6-inch square samples of each acoustical panel type, pattern, and color.
Set of 12-inch-long samples of exposed suspension system members, including molding, for each color and system type required.
Furnish not less than 2 percent extra of amount of units installed, full size Acoustical Ceiling Units and if each exposed Suspension System Component

SECTION 09651 – RESILIENT TILE FLOORING:
Provide resilient tile flooring and accessories as scheduled on the finish plan and finish schedule.
Refer to finish schedule and master finish legend for product information.
Submit product data for each type of product specified.
Submit samples for verification: Full-size tiles of each different color and pattern of resilient floor tile specified, showing the full range of variations expected in these characteristics.
Furnish not less than one box for each 50 boxes or fraction thereof, of each type, color, pattern, class, wearing surface, and size of resilient flooring installed.

SECTION 09666 – SHEET VINYL FLOOR COVERINGS:
Provide sheet vinyl floor covering and accessories as scheduled on the finish plan and finish schedule..
Refer to finish schedule and master finish legend for product information.
Submit product data for each type of product specified.
Submit samples for verification purposes in form of 6-inch by 9-inch sections of each different color and pattern of sheet vinyl floor covering product specified, showing full range of variations expected in these characteristics.
Furnish not less than 2 % extra linear feet in roll form of each different composition, wearing surface, color, and pattern of sheet vinyl floor covering installed.

SECTION 09678 – RESILIENT WALL BASE AND ACCESSORIES:
Provide resilient rubber wall base and accessories as scheduled on the finish plan and finish schedule..
Refer to finish schedule and master finish legend for product information.
Submit product data for each type of product specified.
Submit samples for verification purposes in manufacturer's standard sizes, but not less than 12 inches long, of each different color and pattern of product specified.
Furnish not less than 10 linear feet for each 500 linear feet or fraction thereof of each different type and color of resilient wall base installed.

SECTION 09680 – CARPET:
Provide carpet and accessories as scheduled on the finish plan and finish schedule.
Refer to finish schedule and master finish legend for product information.
Submit product data for each type of carpet material and installation accessory required. Submit written data on physcial characteristics, durability, resistance to fading, and flame resistance characteristics.
Submit samples for verifcation purposes in manufacturer's standard size, showin full range of color, texture, and pattern variations expected. Prepare sampled from same material to be used for the work. Submit the following:
12-inch-square samples of each type of carpet material required.
12-inch-long samples of each type exposed edge stripping and accessory item.

SECTION 09900 – PAINTING:
Provide paint as scheduled on the finish plan and finish schedule.
Refer to finish schedule and master finish legend for product information.
All hollow metal frames to be finished w/ semi-gloss enamel applied by spray method only (no brush strokes).
Provide 1 coat primer and 2 coats medium grade latex paint, satin finish, minimum, unless otherwise noted.
Comply with paint manufacturer's written instructions for surface preparation, environmental and substrate conditions, product mixing, and application.

SECTION 09950 – WALL COVERINGS:
Provide wall coverings as scheduled on the finish plan and finish schedule..
Refer to finish schedule and master finish legend for product information.
Submit product data for each type of product specified. Include data on physical characteristics, durability, fade resistance, and flame resistance characteristics.
Submit samples for verification purposes of each type, color, texture, and pattern of wall covering and molding accessory required, prepared on samples of size indicated below:
Full-width sample, not less than 36 inches long, of each wall covering specified. Show complete pattern repeat.
12-inch long sample of each molding accessory.
Furnish extra quantity of full-size units equal to 10 percent of amount installed.

SECTION 10520 – FIRE-PROTECTION SPECIALTIES:
Provide fire extinguishers and cabinets at locations shown on drawings. Refer to detail drawings for mounting height.
Submit Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for fire-protection specialties:
Fire Extinguishers: Include rating and classification.
Cabinets: Include roughing-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type, trim style, and panel style.
Submit Manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available for each type of cabinet finish indicated.

PORTABLE FIRE EXTINGUISHERS:
Provide Multipurpose Dry-Chemical Type in public areas: UL-rated 2-A:10:B:C, 5-lb(2.3-kg) nominal capacity, in enameled-steel container

FIRE-PROTECTION CABINETS:
Provide manufacturer's standard box (tub), with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated. Weld joints and grind smooth.
Miter and weld perimeter door frames.
Fire-Rated Cabinets: Listed and labeled to meet requirements of ASTM E 814 for fire-resistance rating of wall where it is installed.
Cabinet Metal: Enameled-steel sheet.
Shelf: Same metal and finish as cabinet.
Cabinet Type: Portable fire extinguisher.
Cabinet Mounting: Semi-recessed
Cabinet Trim Style: Fabricate cabinet trim in one piece with corners mitered, welded, and ground smooth.
Cabinet Trim Material: Manufacturer's standard steel sheet.
Door Material: Manufacturer' standard steel sheet.
Door Glazing: Manufacturer's standard, Tempered Float Glass: ASTM C 1048, Kind FT, Condition A, Type I, Quality q3, as follows: Class 1 (clear).
Door Construction: Fabricate doors according to manufacturer's standards, of materials indicated, and coordinated with cabinet types and trim styles selected. Provide minimum 1/2-inch-(13-mm-) thick door frames, fabricated with tubular stiles and rails, and hollow-metal design.
Door Hardware: Provide manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide either lever handle with cam-action latch, or exposed or concealed door pull and friction latch. Provide concealed or continuous-type hinge permitting door to open 180 degrees.in
Identification: Provide lettering to comply with authorities having jurisdiction for letter style, color, size, spacing, and location. Identify fire extinguisher in cabinet with the words "FIRE EXTINGUISHER" applied to door; Application Process: Silk-screened; Lettering Color: Red; Orientation: Vertical.
Cabinet and Door Finishes: Provide manufacturer's standard baked-enamel paint

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THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

DAVIS PARTNERSHIP ARCHITECTS

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Consultant

STATE OF COLORADO – BRIAN WILLIAM ERICKSON – 304813 – 8.2.10 – LICENSED ARCHITECT

Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.19.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
SPECIFICATIONS 2

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
G-102

DPA Project: 10814.00

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SECTION 10650 – OPERABLE PANEL PARTITIONS
PART 1 – GENERAL
1.1 SUBMITTALS
A. Product Data: Material descriptions, construction details, finishes, installation details, and operating instructions for each type of operable partition, component, and accessory specified.
B. Shop Drawings: Show location and extent of operable partitions. Include plans, elevations, sections, details, attachments to other construction, and accessories. Indicate dimensions, weights, conditions at openings, and at storage areas, and required installation, storage, and operating clearances. Indicate location and installation requirements for hardware and track, including floor tolerances required and direction of travel. Indicate blocking to be provided by others.
C. Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.
D. Samples: Color samples demonstrating full range of finishes available by Architect. Verification samples will be available in same thickness and material indicated for the work.

1.2 WARRANTY
A. Provide written warranty by manufacturer of operable partitions agreeing to repair or replace any components with manufacturing defects.
B. Warranty Period: Two (2) years from date of shipment.

PART 2 – PRODUCTS
2.1 MANUFACTURERS, PRODUCTS AND OPERATIONS
A. Manufacturers: Subject to compliance with requirements, provide products by the following:
1. Modernfold, Inc.
B. Products: Subject to compliance with the requirements, provide the following product:
1. Acousti-Seal #932 manually operated paired panel operable partition.

2.2 OPERATION
A. Acousti-Seal #932: Series of paired flat panels hinged together in pairs, manually operated, top supported with operable floor seals.
B. Final Closure:
1. Hinged panel closure.

2.3 PANEL CONSTRUCTION
A. Nominal 3-inch (76mm) thick panels in manufacturer's standard 48-inch (1220mm) widths. All panel horizontal and vertical framing members fabricated from minimum 18-gauge formed steel with overlapped and welded corners for rigidity. Top channel is reinforced to support suspension system components. Frame is designed so that full vertical edges of panels are formed steel and provide concealed protection of the edges of the panel skin.
B. Panel skin shall be:
1. 0.50-inch (13mm) tackable fire core C gypsum board, class "A rated single materials or composite layers continuously bonded to panel frame. Acoustical ratings of panels with this construction:
a. 50 STC.
C. Hinges for Panels, Closure Panels, Pass Doors and Pocket Doors shall be:
1. Full leaf butt hinges, attached directly to the panel frame. Welded hinge anchor plates within panel shall further support hinge mounting to frame. Hinges mounted into panel edge or vertical astragal are not acceptable.
D. Panel Trim: No vertical trim required or allowed on edges of panels; minimal groove appearance at panel joints.
E. Panel Weights:
1. 50 STC – 8 lbs./square foot.

2.4 PANEL FINISH
A. Panel finish be factory applied, Class "A rated material. Finish shall be:
1. Wall covering and upholstery fabric weighing not less than 12 ounces per lineal yeard, with surface treatment to resist stains.
B. Panel Trim: Exposed panel trim of one consistent color:
1. To be advised.

2.5 SOUND SEALS
A. Vertical Interlocking Sound Seals between panels: Roll-formed steel astragals, with reversible tongue and groove configuration in each panel edge for universal panel operation. Rigid plastic astragals in only one panel edge are not acceptable.
B. Horizontal Top Seals: Continuous contact extruded vinyl bulb shape with pairs non-contacting vinyl fingers to prevent distortion without the need for mechanically operated parts.
C. Horizontal bottom floor seals shall be:
1. Modernfold IA2 Bottom seal. Automatic operable seals providing nominal 2-inch (51mm) operating clearance with an operating range of +0.50-inch (13mm) to –1.50-inch (38mm) which automatically drop as panels are positioned, without the need for tools or cranks.

2.6 SUSPENSION SYSTEM
A. #17 Suspension System
1. Suspension Tracks: Minimum 11-gauge, 0.12-inch (3.04mm) roll-formed steel track, suitable for either direct mounting to a wood header or supported by adjustable steel hanger brackets, supporting the load-bearing surface of the track, connected to structural support by pairs of 0.38-inch (10mm) diameter threaded rods. Aluminum track is not acceptable.
a. Exposed Traffic Soffit: Steel, integral to track, and pre-painted off-white.
2. Carriers: One all-steel trolley with steel tired ball bearing wheels per panel (except hinged panels). Non-steel tires are not acceptable.

PART 3 – EXECUTION
3.1 INSTALLATION
A. General: Comply with ASTM E557, operable partition manufacturer's written installation instructions, Drawings and approved Shop Drawings.
B. Install operable partitions and accessories after other finishing operations, including painting have been completed.
C. Match operable partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.
D. Broken, cracked, chipped, deformed or unmatched panels are not acceptable.

SECTION 10801 – TOILET AND BATH ACCESSORIES:
Refer to interior elevation drawings and Accessory Schedule for product information.
Submit product data. Include construction details, material descriptions and thicknesses, dimensions, profiles, fastening and mounting methods, specified options, and finishes for each type of accessory specified.
Submit Setting Drawings: For cutouts required in other work; include templates, substrate preparation instructions, and directions for preparing cutouts and installing anchoring devices.
Submit Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required. Use designations indicated in the Toilet and Bath Accessory Schedule and room designations indicated on Drawings in product schedule.

SECTION 12491 – HORIZONTAL LOUVER BLINDS:

PART 1 – GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementory Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
A. This Section includes the following types of venetian blinds and accessories:
1. Miniblinds with aluminum louver slats.

1.3 SUBMITTALS
A. Product Data: For each type of product indicated. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions.
B. Samples for Selection: For each colored component of each type of horizontal louver blind indicated.

1.4 QUALITY ASSURANCE
A. Source Limitations: Obtain horizontal louver blinds through one source from a single manufacturer.
B. Fire-Test-Response Characteristics: Provide horizontal louver blinds with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
1. Flame-Resistance Ratings: Passes NFPA 701.
C. Corded Window Covering Product Standard: Provide horizontal louver blinds complying with WCMA A 100.1.

1.5 PROJECT CONDITIONS
A. Environmental Limitations: Do not install horizontal louver blinds until construction and wet and dirty finish work in spaces, including painting, is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
B. Field Measurements: Where horizontal louver blinds are indicated to fit other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units' operation hardware throughout the entire operating range. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.6 EXTRA MATERIALS
A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Horizontal Louver Blinds: Before installation begins, for each size, color, texture, pattern, and gloss indicated, full-size units equal to 5 percent of amount installed.

PART 2 – PRODUCTS
2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Horizontal Louver Blinds, Aluminum Louver Slats:
a. Bali; as manufactured by Springs Windows Fashions, LP.

2.2. HORIZONTAL LOUVER BLINDS, ALUMINUM LOUVER SLATS
A. Louver Slats: Aluminum, alloy and temper recommended by producer for type of use and finish indicated; with crowned profile.
1. Nominal Slat Width: 1 inch (25mm) for miniblinds.
2. Slat Finish: One color as selected by Architect: Snow White #386.
3. Headrail: 1 1/2" inch.
4. Slat Thickness: .008.
5. Ladder Spacing: 15.5 slats/foot.
6. Style: Light Filtering #CL8.

2.3 HORIZONTAL LOUVER BLINDS FABRICATION
A. Product Standard and Description: Comply with AWCMA Document 1029, unless otherwise indicated, for each horizontal louver blind designed to be self-leveling and consisting of louver slats, rails, ladders, tapes, lifting and tilting mechanisms, cord, cord lock, tilt control, and installation hardware.
B. Concealed Components: Noncorrodible or corrosion-resistant-coated materials.
1. Lifting and Tilting Mechanisms: With permanently lubricated moving parts.

PART 3 – EXECUTION
3.1 HORIZONTAL LOUVER BLIND INSTALLATION
A. Install blinds level and plumb and aligned with adjacent units according to manufacturer's written instructions, and located so exterior louver edges in any position are not closer than 1 inch (25mm) to interior face of glass. Install intermediate support as required to prevent deflection in headrail. Allow clearances between adjacent blinds and for operating glazed opening's operation hardware, if any.
B. Head Mounted: Install headrail on face of opening head.

3.2 ADJUSTING
A. Adjust horizontal louver blinds to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.3 CLEANING AND PROTECTION
A. Clean blind surfaces after installation, according to manufacturer's written instructions.
B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, that ensure that horizontal louver blinds are without damage or deterioration at time of Substantial Completion.
C. Replace damaged blinds that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

SECTION 13090 – RADIATION PROTECTION

PART 1 – GENERAL
1.1 DEFINITIONS
A. Lead Equivalence: The thickness of lead that provides the same attenuation (reduction of radiation passing through) as the material in question under the specified conditions.
1. Lead equivalence specified for materials used in diagnostic x-ray rooms is as measured at 100 kV, unless otherwise indicated.

1.2 SYSTEM PERFORMANCE REQUIREMENTS
A. Materials, thicknesses, and configurations indicated are based on radiation protection design prepared by Owner's radiation health physicist. Provide radiation protection consistent with materials specified in thicknesses and locations indicated.
1. Radiation protection design prepared by Owner's radiation health physicist is available to Contractor on request.
B. Make joints, fasten to substrates, and shield penetrations to maintain indicated lead equivalence at all points and in all directions.
C. Lead-Lined Assemblies: Unless otherwise indicated, the thickness of lead used in doors, door frames, window frames, penetration shielding, joint strips, film transfer cabinets, and other items located in lead-lined assemblies shall not be less than that indicated for assemblies in which they are installed.

PART 2 – PRODUCTS
2.1 MATERIALS
A. Lead-Lined Gypsum Board: Gypsum board complying with Division 9 Section "Gypsum Board Assemblies," of width and length required for support spacing and to prevent cracking during handling, with a single lead sheet laminated to the back of the board.
1. Gypsum Board Thickness: 5/8 inch(15.9 mm).
B. Accessories and Fasteners: Provide manufacturer's standard fasteners and accessories as required for installation, maintaining same lead equivalence as rest of system.

2.2 MANUFACTURED UNITS
A. Neutron Shielding Doors and Frames: Steel plate doors lined with lead sheet and borated polyethylene and hung from structural-steel door frames.
1. Door Frame Construction: Fabricate from 1/4-inch-(6-mm-) thick steel plate to dimensions indicated, fully welded together. Continuously weld exposed joints and finish smooth, matching adjacent surfaces.
a. Fabricate frames with depth equal to thickness of shielding wall in which door is installed. Rabbet frame to receive door and to provide a 4-inch(100-mm) overlap between door edges and remaining frame depth. Make frame faces 4 inches(100 mm) wide with 3/4-inch-(19-mm-) deep backbends.
b. Reinforce frames and drill and tap as needed to accept finish hardware.
c. Provide steel strap anchors using 1/8-by-2-inch(3-by-50-mm) straps of length required for a minimum 8-inch(200-mm) embedment. Weld anchors to frame members not more than 8 inches(200 mm) from both bottom and top of jambs and from ends of head and space anchors not more than 24 inches(600 mm) apart.
2. Shop-Primed Finish: Prepare ferrous-metal surfaces to comply with SSPC-SP 3 (Power Tool Cleaning) and apply a fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with performance requirements of FS TT-P-664.
a. Stripe paint corners, crevices, bolts, welds, and sharp edges.
3. Hardware: Provide the following hardware for each door:
a. Hinges: BHMA A156.1, Type A8391; weld- or bolt-on type at manufacturer's option; sized for door weight; 2 or 3 per door at manufacturer's option.

SECTION 13090 – RADIATION PROTECTION (CONT.):
PART 3 – EXECUTION
3.1 INSTALLATION OF LEAD-LINED GYPSUM BOARD
A. Install with long edge parallel to supports and lead lining facing supports. Provide blocking at end joints.
B. Fastening to Metal Supports: Use steel drill screws spaced as recommended in writing by gypsum board manufacturer. Install lead strips covering face of framing and wrap around flange to cover points of screws.
1. Where possible, do not fold lead strips back over inside of flange until after lead-lined gypsum board is applied.
C. Fastening to Metal Supports: Use steel drill screws spaced as recommended in writing by gypsum board manufacturer. Apply lead disks over screw heads and recess flush with surface of board.
1. Install lead strips, 1-1/2-inch-(38-mm-) wide minimum and same thickness as lead lining, to face of supports and blocking where joints occur. Secure lead strips with construction adhesive. Provide shims at intermediate supports.
D. Openings: Extend lead-lined gypsum board into frames of openings, lapping lead lining with lead frames or frame linings at least 1 inch(25 mm). Arrange board around openings so neither horizontal nor vertical joints occur at corners of openings.
E. Finishing: Comply with Division 9 Section "Gypsum Board Assemblies" for installing trim and accessories, and for joint treatment and finishing.
1. Apply lead disks recessed flush with surface of board over screw heads securing trim.
2. Install control and expansion joints where indicated, with appropriate trim accessories. Install lead strip on face of framing, extending across joint, and lap with lead lining of gypsum board.

3.2 INSTALLATION OF DOORS AND FRAMES
A. Install lead-lined wood doors according to Division 8 Section "Flush Wood Doors," unless otherwise indicated.
B. Frames: Install frames before constructing walls. Set frames accurately, plumb, and braced securely until permanent anchors are set.
1. Provide 3 anchors per jamb, located adjacent to hinge location on hinge jamb and at corresponding heights on strike jamb.
2. In metal stud construction, use wall anchors attached to studs with screws.
C. Lap lead lining of frames over lining in walls at least 1 inch(25 mm).
D. Lead Lining of Frames: Line inside of frames with lead sheet of thickness not less than that required in doors and walls where frames are used. Form lead sheet to match frame contour, continuous in each jamb and across the head, lapping the stops. Form lead shields around areas prepared to receive hardware. Lap lining over lining in walls at least 1 inch(25 mm).
E. Hardware: Line covers, escutcheons, and plates to provide effective shielding at cutouts and penetrations of frames and doors. See Division 8 Section "Door Hardware" for other installation requirements.
F. Touch up damaged finishes with compatible coating after sanding smooth.
G. Check and readjust operating hardware items, leaving doors and frames undamaged and in proper operating condition.

3.3 INSTALLATION OF PENETRATING ITEMS
A. At penetrations of lead linings, provide lead shields to maintain continuity of protection.
B. Provide lead linings, sleeves, shields, and other protection in thickness not less than that required in assembly being penetrated.
C. Secure shields at penetrations using adhesive or wire ties, but not penetrating fasteners, unless indicated on Drawings.
D. Outlet Boxes and Conduit: Cover or line with lead sheet lapped over adjacent lead lining at least 1 inch(25 mm). Wrap conduit with lead sheet for 10 inches(250 mm) from box.
E. Duct Openings: Unless otherwise indicated, line or wrap ducts with lead sheet for distance from partition/ceiling equal to 3 times the largest opening dimension. Lap lead sheet with adjacent lead lining at least 1 inch(25 mm).
F. Piping: Unless otherwise indicated, wrap piping with lead sheet for 10 inches(250 mm) from point of penetration.

10-490136

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

7/30/2010 10:33:57 AM

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STATE OF COLORADO
BRIAN WILLIAM ERICKSON
304813
7-19-10
LICENSED ARCHITECT

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CONSTRUCTION DOCUMENTS	07.19.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
SPECIFICATIONS 3

CONSTRUCTION DOCUMENTS 16 JULY 2010

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G-103

DPA Project: 10814.00

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BUILDING CODE SUMMARY

PROJECT NAME: Medical Center of Aurora - Medical Office Building
OWNER: CB Richard Ellis
ADDRESS: 1444 South Potomac, Aurora, Colorado 80012

Architect's Project No. 10814

APPLICABLE BUILDING CODES: 2006 International Building Code
2006 International Fuel Gas Code
2006 International Residential Code
2008 National Electrical Code
2006 International Mechanical Code
2003 ICC/ANSI A117.1
2006 International Plumbing Code
2006 International Energy Conservation Code
2006 International Energy Conservation Code Accessible and Usable Buildings and Facilities
2006 International Fire Code

AUTHORITY JURISDICTION: CITY OF AURORA BUILDING DEPARTMENT
CITY OF AURORA FIRE DEPARTMENT
CITY OF AURORA PLANNING DEPARTMENT

Core and Shell Phase
Use and Occupancy Classification: Group B
Gross Square Footage: 68,160 sq. ft.
Construction Type: Type II-B, Fully Sprinklered
Number of stories: 3
Building Height: 40'-0"
Structural Frame: 0
Bearing Walls: 0
Nonbearing Walls: 0
Floor construction: 0
Roof construction: 0

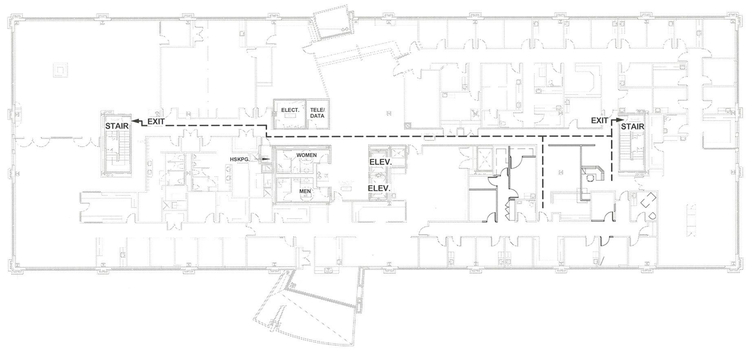
NOTES:
1. Refer to Medical Center of Aurora core and shell construction documents for complete building code analysis.
2. This building use being for medical offices, the toilet fixtures counts will be satisfied per code with the tenant infill of the building. The core and shell intentionally does not have the counts per code for this specific reason. As the tenant packages are released for permit, a running tally will be kept until all required fixture counts have been met.

TENANT CODE SUMMARY

Full Floor Tenant of 21, 224 S.F.
18,027 S.F. at 1 occupant per 100 S.F.
3,071 S.F. - 2 Exercise rooms and 2 Locker rooms at 1 occupant per 50 S.F.
Total: 283 occupants

All occupancies are B
No occupancy separations required.

SECOND FLOOR REGULATORY PLAN



PARTITION TYPES

1. ALL INTERIOR PARTITIONS OF TENANTS SHALL BE CONSTRUCTED AS PARTITION P1, UNLESS OTHERWISE NOTED.
2. ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD OR TO FACE OF METAL STUDS WHERE GYPSUM BOARD DOES NOT OCCUR, UNLESS OTHERWISE NOTED.
3. SEE SHEET A-101, LIFE SAFETY/CODE PLAN, FOR LOCATION OF FIRE RATED AND SECURITY PARTITIONS.
4. ALL METAL STUD FRAMING SHALL BE 3 5/8", UNLESS OTHERWISE NOTED.
5. SEE SPECIFICATION SHEETS FOR PARTITION FRAMING INSTALLATION REQUIREMENTS.
6. SEE SHEET A-101 FOR FULL DESCRIPTIONS OF RATED ASSEMBLIES.
7. SEE SHEET A-101 FOR HEAD OF WALL ASSEMBLY. ALLOW FOR 1" MIN. DEFLECTION.
8. VERTICAL SPAN OF METAL STUDS NOT TO EXCEED MANUF. RECOMMENDATIONS – NOT TO EXCEED L/360.
9. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL CERAMIC TILE WALLS.
10. PROVIDE PARTITION CONTROL JOINT AT ALL UNINTERRUPTED WALLS SPANNING 30'-0", RE: DETAIL 2/I-901.

P1 — NON-RATED SOUND WALL TO STRUCTURE
3 5/8" STUD W/ 5/8" GYP. BD. ON BOTH SIDES
ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF STUDS UP TO BOTTOM OF STRUCTURE. THE OTHER SIDE WILL CONTINUE TO 12" ABOVE THE FINISHED CEILING. WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO BOTTOM OF STRUCTURE. WHERE SOUND WALLS CAN NOT GO TO BOTTOM OF STRUCTURE DUE TO PIPING OR OTHER HVAC OBSTRUCTIONS, PROVIDE 4" BATT INSULATION ON BOTH SIDES OF THE WALL. INSULATION TO COMPLY WITH UL STANDARD 181: FLAME SPREAD = 25 OR LESS, SMOKE DEVELOPED = 50 OR LESS.

P2 — DEMISING NON-RATED SOUND WALL TO STRUCTURE
3 5/8" STUD W/ 5/8" GYP. BD. ON BOTH SIDES
ONE LAYER OF GYPSUM BOARD ON EACH SIDE OF STUDS UP TO BOTTOM OF STRUCTURE. WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO BOTTOM OF STRUCTURE. WHERE SOUND WALLS CAN NOT GO TO BOTTOM OF STRUCTURE DUE TO PIPING OR OTHER HVAC OBSTRUCTIONS, PROVIDE 4" BATT INSULATION ON BOTH SIDES OF THE WALL. INSULATION TO COMPLY WITH UL STANDARD 181: FLAME SPREAD = 25 OR LESS, SMOKE DEVELOPED = 50 OR LESS.

P3 — NON-RATED SOUND WALL
FULL-HEIGHT 3-5/8" METAL STUDS AT 24" O.C. MAX. WITH ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE EXTENDED TO 6" MIN. ABOVE FINISHED CEILING. BRACE PARTITION AT 4'-0" O.C. NON-RATED PARTITION. WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO 6" MIN. ABOVE CEILING.

P4 — NON-RATED
FULL-HEIGHT 3-5/8" METAL STUDS AT 24" O.C. MAX. WITH ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE EXTENDED TO 6" MIN. ABOVE CEILING. BRACE PARTITION AT 4'-0" O.C. NON-RATED PARTITION.

P5 — NON-RATED
3-5/8" STUD W/ 5/8" GYP. BD. ON ONE SIDE
EXTENDED TO 12" ABOVE CEILING.
WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO 6" MIN. ABOVE CEILING.

P6 — NON-RATED PARTITION WALL TO STRUCTURE
1 5/8" STUD W/ 5/8" GYP. BD. ON ONE SIDE EXTENDED TO BOTTOM OF STRUCTURE.

P7 — NON-RATED FURR OUT PLUMBING WALL
5 1/2" STUD W/ 5/8" GYP. BD. ON ONE SIDE EXTENDED TO 12" ABOVE CEILING.

P8 — NON-RATED LEAD SOUND WALL
LEAD WALL/SMOKE RATED
ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES OF 3-5/8" X 20 GA. METAL STUDS @ 16" O.C. PROVIDE LEAD LINING ON INTERIOR SIDE OF ROOM ADJACENT TO STUD. EXTEND STUDS TO STRUCTURE. EXTEND GYPSUM BOARD TO STRUCTURE ON BOTH SIDES OF WALL WITH 3-1/2" UNFACED SOUND ATTENUATION FIBERGLASS BATTS TO STRUCTURE. THICKNESS OF LEAD SHIELDING MAY VARY – SEE PHYSICISTS REPORT, SHEET SPEC4.

P9 — NON-RATED LEAD WALL
LEAD WALL/SMOKE RATED AT WINDOW SIDES
ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE OF 1-5/8" X 20 GA. ONE LAYER 3/8" TYPE "X" GYPSUM BOARD ON WINDOW SIDE OF 1-5/8" X 20 GA ON TOP OF EXISTING WINDOWO SILL. METAL STUDS @ 16" O.C. PROVIDE LEAD LINING ON INTERIOR SIDE OF ROOM ADJACENT TO STUD. EXTEND STUDS TO STRUCTURE. EXTEND GYPSUM BOARD TO STRUCTURE ON BOTH SIDES OF WALL WITH 3-1/2" UNFACED SOUND ATTENUATION FIBERGLASS BATTS TO STRUCTURE. THICKNESS OF LEAD SHIELDING MAY VARY – SEE PHYSICISTS REPORT, SHEET SPEC4.

P10 — SMOKE RATED PARTITION LEAD WALL
LEAD WALL/SMOKE RATED
ONE LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES OF 3-5/8" X 20 GA. METAL STUDS @ 16" O.C. PROVIDE LEAD LINING ON INTERIOR SIDE OF ROOM ADJACENT TO STUD. EXTEND STUDS TO STRUCTURE. EXTEND GYPSUM BOARD TO STRUCTURE ON BOTH SIDES OF WALL WITH 3-1/2" UNFACED SOUND ATTENUATION FIBERGLASS BATTS THICKNESS OF LEAD SHIELDING MAY VARY – SEE PHYSICISTS REPORT, SHEET SPEC4. THE SPACE AROUND PENETRATING ITEMS AND IN JOINTS SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.

P11 — NON-RATED PARTIAL HEIGHT WALL
PARTIAL HEIGHT PARTITION
PARTIAL-HEIGHT 3-5/8" METAL STUDS AT 16" O.C. MAX. 3-1/2" X 2-1/2" X 1/4" H.S.S. SUPPORTS AT 48" O.C. MAX. WELDED TO BASE PLATE ATTACHED TO CONCRETE WITH POWDER ACTUATED FASTENERS. WITH ONE LAYER 5/8" TYPE "X" GYPSUM BOARD EACH SIDE. REFER TO INTERIOR ELEVATIONS FOR PARTITION HEIGHTS. NON-RATED PARTITION. REFER TO SECTION 15/A4.1.

P12 — NON-RATED PLUMBING SOUND WALL
5-1/2" STUD W/ 5/8" GYP. BD. ON BOTH SIDES
ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF STUDS UP TO BOTTOM OF STRUCTURE. THE OTHER SIDE WILL CONTINUE TO 12" ABOVE THE CEILING. WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO BOTTOM OF STRUCTURE. WHERE SOUND WALLS CAN NOT GO TO BOTTOM OF STRUCTURE DUE TO PIPING OR OTHER HVAC OBSTRUCTIONS, PROVIDE 4" BATT INSULATION ON BOTH SIDES OF THE WALL. INSULATION TO COMPLY WITH UL STANDARD 181: FLAME SPREAD = 25 OR LESS, SMOKE DEVELOPED = 50 OR LESS.

P13 — NON-RATED 15" WIDE SOUND PARTITION
1-5/8"STUD WITH ONE LAYER 5/8" TYPE 'X' GWB. EA. SIDE. ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF STUDS UP TO BOTTOM OF STRUCTURE. THE OTHER SIDE WILL CONTINUE TO 12" ABOVE THE CEILING. WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO BOTTOM OF STRUCTURE. WHERE SOUND WALLS CAN NOT GO TO BOTTOM OF STRUCTURE DUE TO PIPING OR OTHER HVAC OBSTRUCTIONS, PROVIDE 4" BATT INSULATION ON BOTH SIDES OF THE WALL. INSULATION TO COMPLY WITH UL STANDARD 181: FLAME SPREAD = 25 OR LESS, SMOKE DEVELOPED = 50 OR LESS.

P14 — SMOKE RATED SOUND PARTITION WALL TO STRUCTURE
FULL-HEIGHT 3-5/8" METAL STUDS AT 24" O.C. MAX. WITH ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE FULL HEIGHT TO STRUCTURE WITH 3-1/2" UNFACED SOUND ATTENUATION FIBERGLASS BATTS TO STRUCTURE. WHERE SOUND WALLS CAN NOT GO TO STRUCTURE DUE TO PIPING OR OTHER HVAC OBSTRUCTIONS, PROVIDE 4" BATT INSULATION ON BOTH SIDES OF THE WALL. INSULATION TO COMPLY WITH UL STANDARD 181: FLAME SPREAD = 25 OR LESS, SMOKE DEVELOPED = 50 OR LESS. THE SPACE AROUND PENETRATING ITEMS AND IN JOINTS SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.

P15 — SMOKE RATED SOUND PARTITION PLUMBING WALL TO STRUCTURE
FULL-HEIGHT 5-1/2" METAL STUDS AT 24" O.C. MAX. WITH ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE FULL HEIGHT TO STRUCTURE WITH UNFACED SOUND ATTENUATION FIBERGLASS BATTS TO 12" ABOVE CEILING. THE SPACE AROUND PENETRATING ITEMS AND IN JOINTS SHALL BE FILLED WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.

P16 — 1 HOUR RATED SOUND WALL TO STRUCTURE
ONE LAYER OF GYPSUM BOARD ON EACH SIDE OF STUDS UP TO BOTTOM OF STRUCTURE. WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO BOTTOM OF STRUCTURE. WHERE SOUND WALLS CAN NOT GO TO BOTTOM OF STRUCTURE DUE TO PIPING OR OTHER HVAC OBSTRUCTIONS, PROVIDE 4" BATT INSULATION ON BOTH SIDES OF THE WALL. INSULATION TO COMPLY WITH UL STANDARD 181: FLAME SPREAD = 25 OR LESS, SMOKE DEVELOPED = 50 OR LESS.

P17 — NON-RATED SOUND WALL
FULL-HEIGHT 3-5/8" METAL STUDS AT 24" O.C. MAX. WITH ONE LAYER 5/8" TYPE 'X' GYPSUM BOARD EACH SIDE EXTENDED TO 12" MIN. ABOVE FINISHED CEILING. BRACE PARTITION AT 4'-0" O.C. NON-RATED PARTITION. WALLS WILL BE INSULATED WITH 3 1/2" THICK SOUND ATTENUATION BATT INSULATION EXTENDED TO 12" MIN. ABOVE CEILING.

GRAPHIC SYMBOLS

ROOM NAME / XX-XXX — ROOM NUMBER

D-XX / F-XX.X — DOOR TYPE, DOOR WIDTH, HARDWARE GROUP, FRAME TYPE — DOOR NUMBER

PX — PARTITION TYPE

(#) — EQUIPMENT NOTE

(#) — CONSTRUCTION NOTE

ELEVATION

WORK POINT

9'-0" — CEILING HEIGHT / CEILING NOTE

(X) — REVISION

XX / AX.X — ELEVATION REFERENCE

XX / AX.X — DETAIL REFERENCE

GRID REFERENCE

XX / AX.X — WALL SECTION REF

XX / AX.X — BUILDING SECTION REF

DETAIL REFERENCE

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. NOTIFY THE ARCHITECT IF CRITICAL DIMENSIONS DO NOT APPEAR ON THE DRAWINGS.
2. IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, NOTIFY THE ARCHITECT FOR RESOLUTION.
3. SEE FLOOR PLAN AND SHEET A-102 FOR OPENING SCHEDULE.
4. IF DISCREPANCIES IN ARCHITECTURAL ELEMENTS (PARTITIONS, DOOR LOCATIONS... ETC.) OCCUR BETWEEN THE ARCHITECTURAL DRAWINGS AND ENGINEERING DRAWINGS – THE ARCHITECTURAL DRAWINGS SHALL GOVERN.
5. ALL DIMENSIONS ON THE ARCHITECTURAL DRAWINGS LOCATING STRUCTURAL MEMBERS ARE TO CENTERLINE.
6. CONTRACTOR SHALL FIELD VERIFY ALL ROUGH OPENING DIMENSIONS.
7. ALL PLAN DIMENSIONS LOCATING EXTERIOR WALL ASSEMBLIES ARE TO EXTERIOR FACE OR TO INTERIOR FINISH FACE, UNLESS NOTED OTHERWISE.
8. ALL PLAN DIMENSIONS LOCATING INTERIOR GYPSUM BOARD PARTITIONING ARE TO FACE OF GYPSUM BOARD OR TO FACE OF METAL/WOOD STUDS WHERE GYPSUM BOARD DOES NOT OCCUR, UNLESS NOTED OTHERWISE.
9. ALL PLAN DIMENSIONS LOCATING DOOR ASSEMBLIES IN INTERIOR GYPSUM BOARD PARTITIONING ARE TO EDGE OF DOOR LEAF, UNLESS NOTED OTHERWISE.
10. ALL PLAN DIMENSIONS LOCATING OPENINGS IN EXTERIOR WALLS AND INTERIOR PARTITIONING (EXCEPT DOOR ASSEMBLIES IN INTERIOR GYPSUM BOARD PARTITIONING, SEE NOTE NO. 9 ABOVE) ARE TO EDGE OF ROUGH OPENING, UNLESS NOTED OTHERWISE.
11. ALL WALL-MOUNTED CASEWORK, MILLWORK, GRAB BARS, HARDWARE, EQUIPMENT, ETC., SHALL BE ANCHORED TO METAL STRAPPING BETWEEN STUDS, UNLESS NOTED OTHERWISE.
12. PROVIDE 20 GAUGE METAL BACKING IN GYPSUM BOARD PARTITIONS FOR ANCHORING CORNER GUARDS, EQUIPMENT, DOOR STOPS, AND OTHER SIMILAR ITEMS.
13. WHERE FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS, OR OTHER EQUIPMENT ARE RECESSED IN FIRE-RATED PARTITIONING, MODIFY PARTITION CONSTRUCTION TO PROVIDE CONTINUOUS ENCLOSURE FOR UNINTERRUPTED FIRE-RATING, OR USE FIRE-RATED ENCLOSURES. ALL F.E.C. TO BE FULLY RECESSED.
14. PROVIDE SEALANT AT ALL PLUMBING FIXTURES, BETWEEN GYPSUM BOARD WALLS AND METAL FRAMING MEMBERS, BETWEEN GYPSUM BOARD AND HOLLOW METAL FRAMES, AND ALL MATERIALS WHICH DISPLAYS DIFFERENTIAL MOVEMENT.
15. PROVIDE FIRESTOPPING AROUND ALL PENETRATIONS OCCURRING THROUGH FLOORS, WALLS, AND CEILINGS. SEE SPECIFICATION SECTION 07270 FOR FIRESTOPPING SCHEDULE, AND SHEET A-101 FOR RATED ASSEMBLIES.
16. FIRE RATED ASSEMBLIES AND COMPONENTS SHOWN ON SHEET A-101 WILL TAKE PRECEDENCE OVER OTHER NOTES AND DETAILS SHOWN IN THE CONSTRUCTION DOCUMENTS FOR FIRE RATED CONSTRUCTION.
17. REFER TO SHEET I-201 FOR MASTER FINISH LEGEND.
18. ALL WOOD TO BE FRT FOR BLOCKING, BACKING, ETC.
19. REMOVE PROTECTIONS AT COMPLETION OF WORK. PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION AND/OR CONSTRUCTION WORK AT NO COST TO THE TENANT.
20. WHERE PARTITION OCCURS AT WINDOW MULLION, CENTERLINE OF PARTITION SHALL ALIGN WITH CENTERLINE OF MULLION AND MATCH STANDARD DETAIL.
21. THE CONTRACTOR SHALL MAINTAIN THE EXISTING STRUCTURAL AND FIREPROOFING INTEGRITY THROUGHOUT THE ENTIRE PROJECT AREA.
22. THE OWNER SHALL BE CONTACTED IN REGARDS TO ANY SALVAGEABLE MATERIAL OR EQUIPMENT. ANY SALVAGEABLE ITEMS NOT TO BE REUSED OR WANTED BY OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR.
23. WHERE NEW PARTITIONS ADJOIN EXISTING SHELL PARTITIONS, THE NEW PARTITION FINISH SHALL ALIGN WITH EXISTING FINISH, UNLESS NOTED OTHERWISE.
24. PROVIDE SMOOTH AND FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING FINISHES.
25. CONTRACTOR SHALL VISIT THE SITE AND BECOME COMPLETELY FAMILIAR WITH ALL EXISTING CONITIONS PRIOR TO SUBMITTING PRICES AND STARTING WORK.
26. GENERAL CONTRACTOR TO CLEAN ALL EXISTING WINDOW TREATMENTS, FLOOR FINISHES, AND CASEWORK THAT ARE TO REMAIN.
27. CONTRACTOR TO SUBMIT SHOP DRAWINGS ON CASEWORK AND ALL INTERIOR FINISHES TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
28. ALL DOOR HARDWARE TO BE LEVER HANDLE. CONTRACTOR NOT TO REINSTALL DOOR HARDWARE THAT DOES NOT MEET A.D.A.
29. COORDINATE WITH OWNER AND TENANT ON CONSTRUCTION SCHEDULE.
30. THE INFORMATION ON THIS SHEET IS A MASTER REFERENCE FOR TENANT FINISHES. REFER TO EACH SUITE FOR PARTITION TYPES, SYMBOLS, AND ABBREVIATIONS USED. SOME OF THE PARTITION TYPES, SYMBOLS, AND ABBREVIATIONS ARE NOT USED IN EACH SUITE.
31. AN APPROVED AUTOMATIC SPRINKLER SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH SECTION 904. THIS INCLUDES BLIND SPACES ENCLOSED WHOLLY OR PARTLY BY COMBUSTIBLE CONSTRUCTION. FIRE PROTECTION CONTRACTOR WILL PROVIDE DRAWINGS TO FIRE DEPT. FOR REVIEW AND APPROVAL.

ABBREVIATIONS

10-490136

&	AND
L	ANGLE
@	AT
CL	CENTERLINE
#	POUND, NUMBER
(E)	EXISTING
I	CHANNEL
A.S.I.	ARCHITECT'S SUPPLEMENTARY INSTRUCTION
ABV.	ABOVE
AC.	ACOUSTICAL
AC.FL.	ACOUSTICAL FLOOR
A.C.T.	ACOUSTICAL TILE
ADD.	ADDENDUM
ADJ.	ADJACENT
ADJT.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AG.	AGGREGATE
A.H.U.	AIR HANDLING UNIT
AL.	ALUMINUM
ALT.	ALTERNATE
A.P.C.	AC. PANEL CEILING
APX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
ASPH.	ASPHALT
AUTO.	AUTOMATIC
B.C.	BOTTOM CABINETS
B.O.F.	BY OWNER FUTURE
B.L.T.	BORROWED LIGHT
B.O.	BY OWNER
BD.	BOARD
BDG.	BRIDGING
BEL.	BELOW
BET.	BETWEEN
BIT.	BITUMINOUS
BKT.	BRACKET
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
BTM.	BOTTOM
BRG.	BEARING
BSMT.	BASEMENT
C.C.D.	CONSTRUCTION CHANGE DIRECTIVE
CFL.	COUNTER FLASHING
C.G.	CORNER GUARD
C.J.	CONTROL JOINT
C.L.L.	CONTRACT LIMIT LINE
C.M.U.	CONC. MASONRY UNIT
C.O.	CHANGE ORDER
C.T.	CERAMIC TILE
CAB.	CABINET
CEM.	CEMENT
CK.	CAULKING
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CNTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACT(OR)
CORR.	CORRIDOR
CPT.	CARPET
C.S.S.	CLINICAL SERVICE SINK
CTR.	CENTER
CTSK.	COUNTERSUNK
CX.	CONNECTION
D.	DRAIN, DOWN, DATA
D.F.	DRINKING FOUNTAIN
DBL.	DBL. DOUBLE
DEPT.	DEPARTMENT
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DPR.	DISPENSER
DR.	DOOR
D.S.	DOWN SPOUT
DWG.	DRAWING
DWR.	DRAWER
E.	EAST, ELECTRICAL OUTLET
E.D.	EXHAUST DUCT
E.F.	EXHAUST FAN
E.J.	EXPANSION JOINT
E.W.C.	ELECTRIC WATER COOLER
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENGR.	ENGINEER
EQ.	EQUAL
EQP.	EQUIPMENT
EXST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
ECTV	CABLE T.V. OUTLET
F.B.O.	FUTURE BY OWNER
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER- WALL MTD.
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.L.	FINISH FLOOR LINE
F.H.C.	FIRE HOSE CABINET
F.R.	FIRE RESISTIVE
FAS.	FASTENER)
FDN.	FOUNDATION
FIN.	FINISH(ED)
FIXT.	FIXTURE
FLG.	FLASHING
FLR.	FLOOR(ING)
FLUR.	FLUORESCENT
F.R.T.	FIRE RETARDANT TREATED
F.S.	FLOOR SINK
FT.	FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
F.V.	FIELD VERIFY
G.B.	GRAB BAR
GYP.BD.	GYPSUM BOARD
G.C.M.U.	GLAZED CONCRETE MASONRY UNIT
GA.	GAGE
GD.	GRADE
GL.	GLASS
GND.	GROUND
GV.	GALVANIZED
GYP.	GYPSUM
H.D.	HEAVY DUTY
H.C.	HOLLOW CORE
H.M.	H.M. HOLLOW METAL
HDCP.	HANDICAP(PED)
HDW.	HARDWARE
HGT.	HEIGHT
HOR.	HORIZONTAL
HR.	HOUR
HVAC	HEATING VENTILATING AIR CONDITIONING
HW.	HOT WATER
I.B.C.	INSTALLED BY CONTRACTOR
I.D.	INSIDE DIAMETER
I.R.W.C.	IMPACT RESISTANT WALL COVERING
IN.	INCH
INFO.	INFORMATION
INS.	INSULATION OR INSULATED
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
K.D.	KNOCKDOWN
K.P.L.	KICK PLATE
KIT.	KITCHEN
KO.	KNOCKOUT
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LBL.	LABEL
LKR.	LOCKER
LT.	LIGHT
LTL.	LINTEL
LVR.	LOUVER
M.O.	MASONRY OPENING
MAS.	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MMB.	MEMBRANE
MT.	MOUNT(ED)
MUL.	MULLION
N.	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM.	NOMINAL
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.T.O.	OUTSIDE TO OUTSIDE
OFF.	OFFICE
OH.	OVERHEAD
OPG.	OPENING
OPP.	OPPOSITE
P.A.C.	PREVIOUSLY AWARDED CONTRACT
P.L.	PROPERTY LINE
P.L.AM.	PLASTIC LAMINATE
P.R.	PROPOSAL REQUEST
P.S.F.	POUNDS PER SQ. FOOT.
P.S.I.	POUNDS PER SQ. INCH
P.T.D.	PAPER TOWEL DISPENSER
P.T.D.R.	PAPER TOWEL DISPENSE AND RECEPTICAL
P.T.R.	PAPER TOWEL RECEPTACLE
PWD.	PLYWOOD
PFB.	PREFABRICATED
PL.	PLATE
PLAS.	PLASTER
PNL.	PANEL
PNTD.	PAINT(ED)
PR.	PAIR
PROJ.	PROJECT
PT.	POINT, PAPER TOWEL
PTN.	PARTITION
PV.	PAVEMENT
Q.T.	QUARRY TILE
R.	RISER.
R.D.	ROOF DRAIN
R.F.	RESILIENT FLOORING
R.L.	RAIN LEADER
R.O.	ROUGH OPENING
R.O.D.	ROOF OVERFLOW DRAIN
R.W.C.	RAIN WATER CONDUCTOR
RAD.	RADIUS
RE.	REINFORCED
REC.	RECESSED(ED)
REF.	REFERENCE
REFR.	REFRIGERATOR
REQ.	REQUIRED
RES.	RESILIENT
REV.	REVISED (ION)
RFG.	ROOFING
RFL.	REFLECTED
RM.	ROOM
S.	SOUTH
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
S.D.	SOAP DISPENSER
S.N.C.	SANITARY NAPKIN CABINET
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
S.SK.	SERVICE SINK
S.ST.	STAINLESS STEEL
S.S.	STAINLESS STEEL
S.R.	SINK RECEPTACLE
SCHED.	SCHEDULE
SEC.	SECTION
SH.	SHELF
SHR.	SHOWER
SHT.	SHEET
SHTH.	SHEATHING
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.	STEEL
STA.	STATION
STD.	STANDARD
STG.	STORAGE
STR.	STRUCTURE (AL)
SUSP.	SUSPENDED
S.V.	SHEET VINYL
SYM.	SYMMETRICAL
SYS.	SYSTEM
T.	TREAD, TELEPHONE OUTLET
T & G	TONGUE AND GROOVE
T.B.	TOWEL BAR
T.D.	TOP OF
T.P.D.	TOILET PAPER DISPENSER
T.PTN.	TOILET PARTITION
T.V.	TELEVISION
TEL.	TELEPHONE
THK.	THICK
THR.	THRESHOLD
TYP.	TYPICAL
TZ.	TERRAZZO
U.C.	UNDER CABINET
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
UNF.	UNFINISHED
UR.	URINAL
V.	VACUUM
V.R.	VAPOR RETARDER
V.C.T.	VINYL COMPOSITION TILE
V.T.R.	VENT TO ROOF
V.W.C.	VINYL WALL COVERING
VERT.	VERTICAL
VEST.	VESTIBULE
VIN.	VINYL
W.	WEST
W.C.	WATER CLOSET
W.P.T.	WORKING POINT
W.R.	WATER RESISTANT
W.W.F.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WD.	WOOD
WF.	WIDE FLANGE
WIN.	WINDOW
WP.	WATERPROOFING
WSCT.	WAINSCOT
WB.	WASTE BASKET

CITY OF AURORA
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DATE 6/3/10

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BRIAN WILLIAM ERICKSON
304813
6.2.10
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Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.19.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
GENERAL INFORMATION AND PARTITION TYPES

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
G-104

DPA Project: 10814.00

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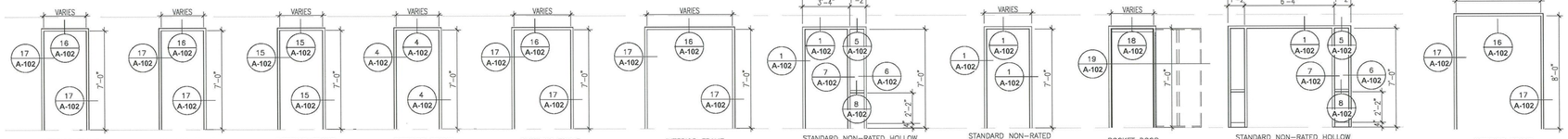
FRAME TYPES



DOOR NOTES

1. SMOKE AND DRAFT CONTROL DOORS

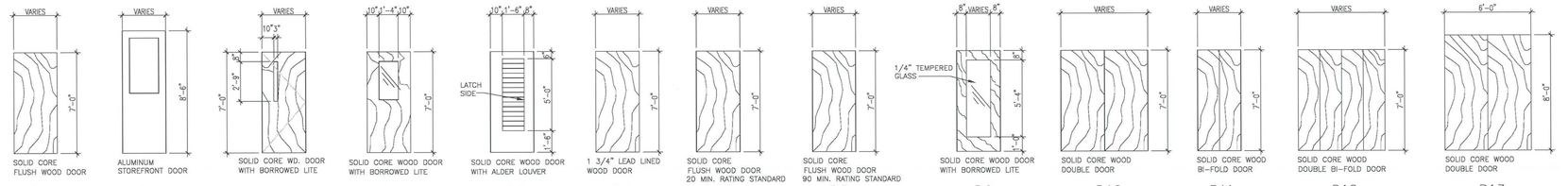
   REFER TO IBC 2003:

   710.5.2 SMOKE AND DRAFT-CONTROL DOORS. WHERE REQUIRED ELSEWHERE IN THE CODE, DOORS IN SMOKE PARTITIONS SHALL BE TESTED IN ACCORDANCE WITH UL 1784 WITH AN ARTIFICIAL BOTTOM SEAL INSTALLED ACROSS THE FULL WIDTH OF THE BOTTOM OF THE DOOR ASSEMBLY. THE AIR LEAKAGE RATE OF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CUBIC FEET PER MINUTE PER SQUARE FOOT OF DOOR OPENING AT 0.10 INCH OF WATER FOR BOTH THE AMBIENT TEMPERATURE TEST.

   710.5.3 SELF-CLOSING OR AUTOMATIC-CLOSING DOORS. WHERE REQUIRED ELSEWHERE IN THE CODE, DOORS IN SMOKE PARTITIONS SHALL BE SELF-CLOSING OR AUTOMATIC-CLOSING IN ACCORDANCE WITH SECTION 715.7.3.

2. "E" = EXISTING DOOR, FRAME, OR HARDWARE
3. "R" = RELOCATED DOOR, FRAME, OR HARDWARE.

DOOR TYPES



TYPICAL HARDWARE GROUPS

HARDWARE SET A
OFFICE SET
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 MORTISE CYLINDER
1 WALL STOP
1 SILENCER (SET)

HARDWARE SET A1
OFFICE SET
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 MORTISE CYLINDER
1 OVERHEAD STOP
1 SILENCER (SET)

HARDWARE SET B
OFFICE SET
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 MORTISE CYLINDER
1 WALL STOP
1 SILENCER (SET)
1 CLOSER

HARDWARE SET C
PASSAGE SET:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 WALL STOP
1 SILENCER (SET)

HARDWARE SET C1
PASSAGE SET:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 OVERHEAD STOP
1 SILENCER (SET)

HARDWARE SET D
PASSAGE SET:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 OVERHEAD STOP
1 SILENCER (SET)
1 CLOSER

HARDWARE SET D1
PASSAGE SET:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 WALL STOP
1 SILENCER (SET)
1 CLOSER

HARDWARE SET E
PASSAGE SET:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 WALL STOP
1 SILENCER (SET)
1 VINYL SWEEP

HARDWARE SET F
PRIVACY LOCK SET:
EACH OPENING TO HAVE:
3 HINGES
1 PRIVACY SET
1 WALL STOP
1 SILENCER (SET)

HARDWARE SET G
STORAGE LOCKSET:
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 WALL STOP
1 SILENCER (SET)

HARDWARE SET H
POCKET DOOR:
EACH OPENING TO HAVE:
2 RECESSED HANDLES

HARDWARE SET I
POCKET DOOR WITH LOCK:
EACH OPENING TO HAVE:
2 RECESSED HANDLES
1 LOCKSET

HARDWARE SET J
PASSAGE SET:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 WALL STOP
1 SILENCER (SET)
1 CLOSER

HARDWARE SET K
DOUBLE DOOR CLOSET:
EACH OPENING TO HAVE:
6 HINGES
2 LOCKSETS
2 WALL STOPS
2 SILENCER (SETS)

HARDWARE SET L
TENANT DOORS W/IN SUITE:
EACH OPENING TO HAVE:
3 HINGES
1 MORTISE CYLINDER
1 WALL STOP
1 SILENCER (SET)
1 KEYPAD LOCKS
1 KICK PLATE

HARDWARE SET M
SOILED UTILITY:
EACH OPENING TO HAVE:
3 HINGES
1 MORTISE CYLINDER
1 WALL STOP
1 SILENCER (SET)
1 KEYPAD LOCKS
1 CLOSER

HARDWARE SET N
KEYPAD LOCK:
EACH OPENING TO HAVE:
3 HINGES
1 MORTISE CYLINDER
1 CLOSER
1 WALL STOP
1 SILENCER (SET)
1 KEYPAD LOCK

HARDWARE SET O
LEAD LINED DOOR:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 WALL STOP
1 SILENCER (SET)

HARDWARE SET P
SINGLE BI-FOLD DOOR:
EACH OPENING TO HAVE:
3 HINGES
1 HANDLES

HARDWARE SET Q
DOUBLE BI-FOLD DOOR:
EACH OPENING TO HAVE:
3 HINGES
2 HANDLES

HARDWARE SET R
PASSAGE SET WITH SOUND SEALS:
EACH OPENING TO HAVE:
3 HINGES
1 PASSAGE SET
1 WALL STOP
1 VINYL SWEEP
1 CONTINUOUS SMOKE SEAL

HARDWARE SET S
DOUBLE DOOR CLOSET:
EACH OPENING TO HAVE:
6 HINGES
2 FLUSH BOLTS
1 MORTISE CYLINDER

HARDWARE SET T
DOUBLE ENTRY DOOR:
EACH OPENING TO HAVE:
6 HINGES
1 CYLINDER
1 NON-CYLINDER
2 WALL STOP
1 AUTOMATIC FLUSH BOLT (SET)
2 OVERHEAD HOLDERS & STOPS
1 LOCK SET

HARDWARE SET U
SINGLE ENTRY DOOR:
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 MORTISE CYLINDER
1 WALL STOP
1 SILENCER (SET)
1 CLOSER

HARDWARE SET U1
SINGLE ENTRY DOOR:
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 MORTISE CYLINDER
1 OVERHEAD STOP
1 SILENCER (SET)
1 CLOSER

HARDWARE SET V
STORAGE LOCKSET:
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 OVERHEAD STOP
1 SILENCER (SET)

HARDWARE SET W
CORE TOILETS:
EACH OPENING TO HAVE:
3 HINGES
1 DOOR PULL
1 PUSH PLATE
1 CLOSER
1 PROTECTION PLATE
1 WALL STOP

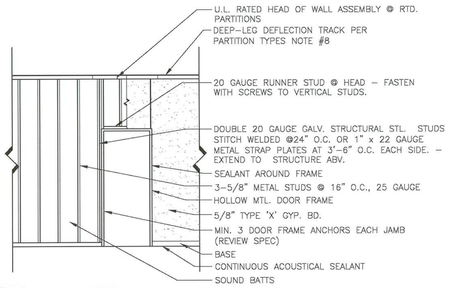
HARDWARE SET X
SINGLE DOOR EXIT:
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 PANIC BAR – ON EXIT SIDE
1 CLOSER
1 WALL STOP
1 SILENCER (SET)

HARDWARE SET Y
SMOKE AND DRAFT CONTROL
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 WALL STOP
1 SELF CLOSER
1 CONTINUOUS SMOKE SEAL (REFER TO DOOR NOTE #1)
1 SILENCER (SET)

HARDWARE SET Y1
SMOKE AND DRAFT CONTROL
EACH OPENING TO HAVE:
3 HINGES
1 LOCKSET
1 OVERHEAD STOP
1 SELF CLOSER
1 CONTINUOUS SMOKE SEAL (REFER TO DOOR NOTE #1)
1 SILENCER (SET)

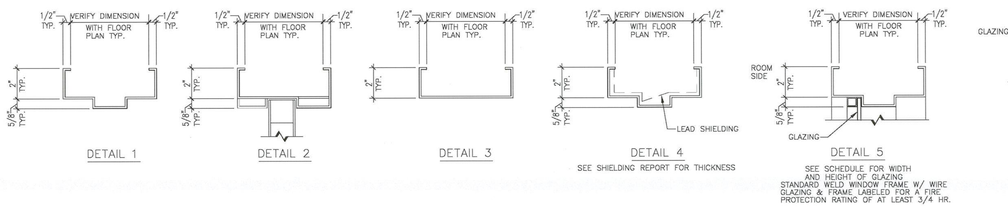
HARDWARE SET Z
DOUBLE DOOR WITH MAGNETIC HOLD OPEN
EACH OPENING TO HAVE:
8 HINGES
2 DOUBLE DOOR PASSAGE SETS
2 SILENCER SETS
4 MAGNETIC HOLD OPENERS

TYPICAL DOOR FRAME INSTALLATION



Provide lever or other approved hardware on all new or relocated doors per 2003 ANSI A117.1.

JAMB DETAILS



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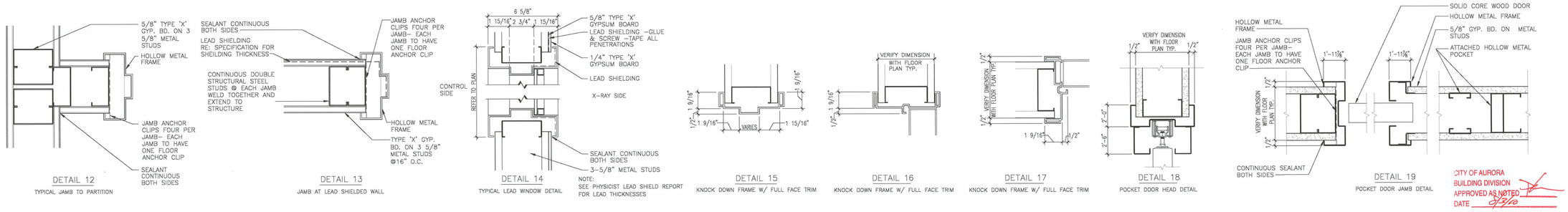

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304813
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Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.19.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
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Sheet Information

Sheet Title:
MASTER DOOR AND FRAME TYPES

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
G-105

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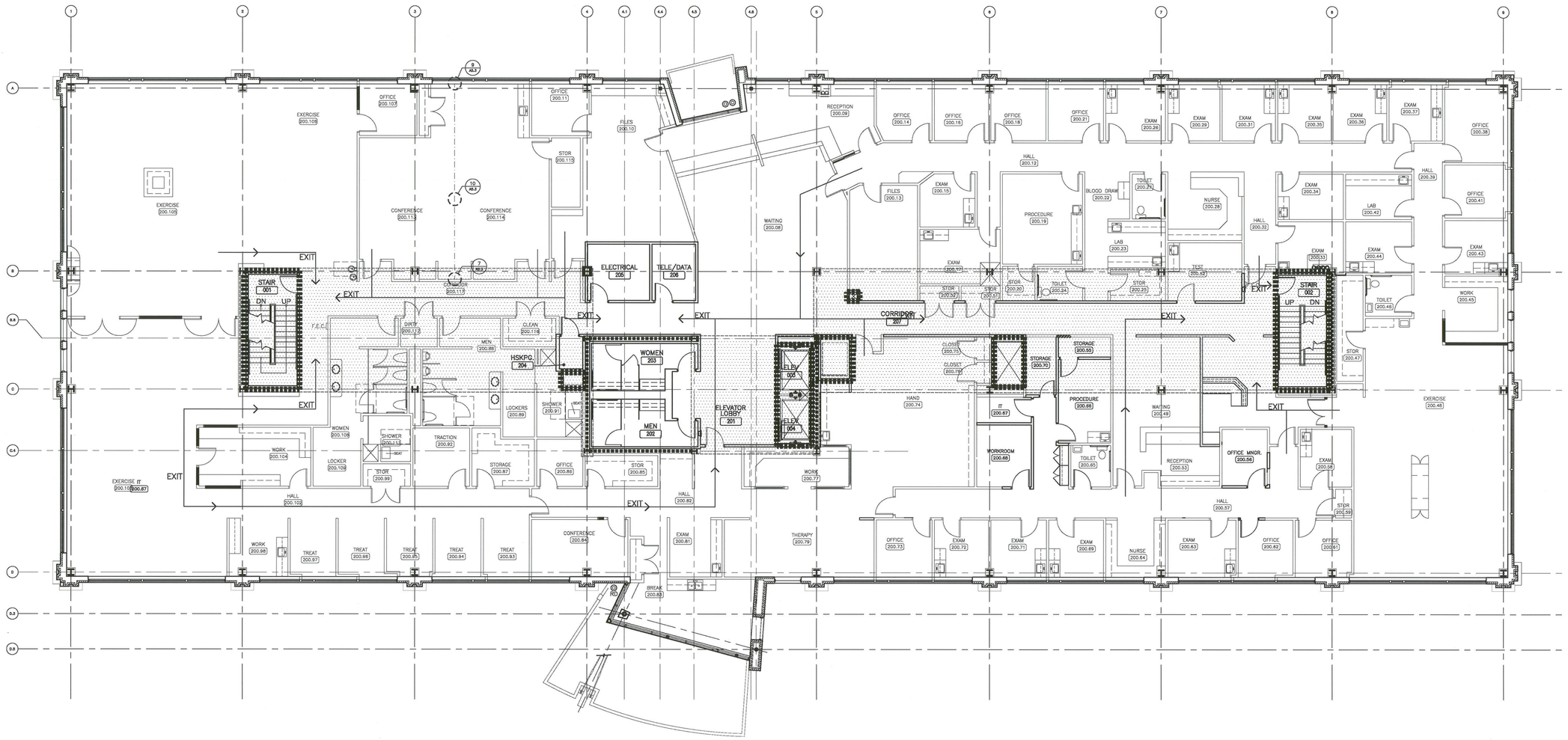

1 REGULATORY PLAN - SECOND FLOOR

1/8" = 1'-0"

NOTE:
1. THIS BUILDING USE BEING FOR MEDICAL OFFICES, THE TOILET FIXTURE COUNTS WILL BE SATISFIED PER CODE WITH THE TENANT INFILL OF THE BUILDING. THE CORE AND SHELL INTENTIONALLY DOES NOT HAVE THE COUNTS PER CODE FOR THIS SPECIFIC REASON, AS THE TENANT PACKAGES ARE RELEASED FOR PERMIT, A RUNNING TALL WILL BE KEPT UNTIL ALL REQUIRED FIXTURE COUNTS HAVE BEEN MET.

1–HR (45 MIN. DOORS)

1–HR EXIT PASSAGEWAY (60 MIN. DOORS)

1–HR SHAFT WALL

SPRAYED FIRE RESISTIVE MATERIAL ON ALL SHAFT STRUCTURAL SUPPORT MEMBERS

FIRE EXTINGUISHER CABINET

EXIT EXIT PATHWAY THRU BUILDING

EXIT EXIT TO OUTSIDE OF BUILDING

10-490136

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MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
REGULATORY PLAN - SECOND FLOOR

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
G-106

DPA Project: 10814.00

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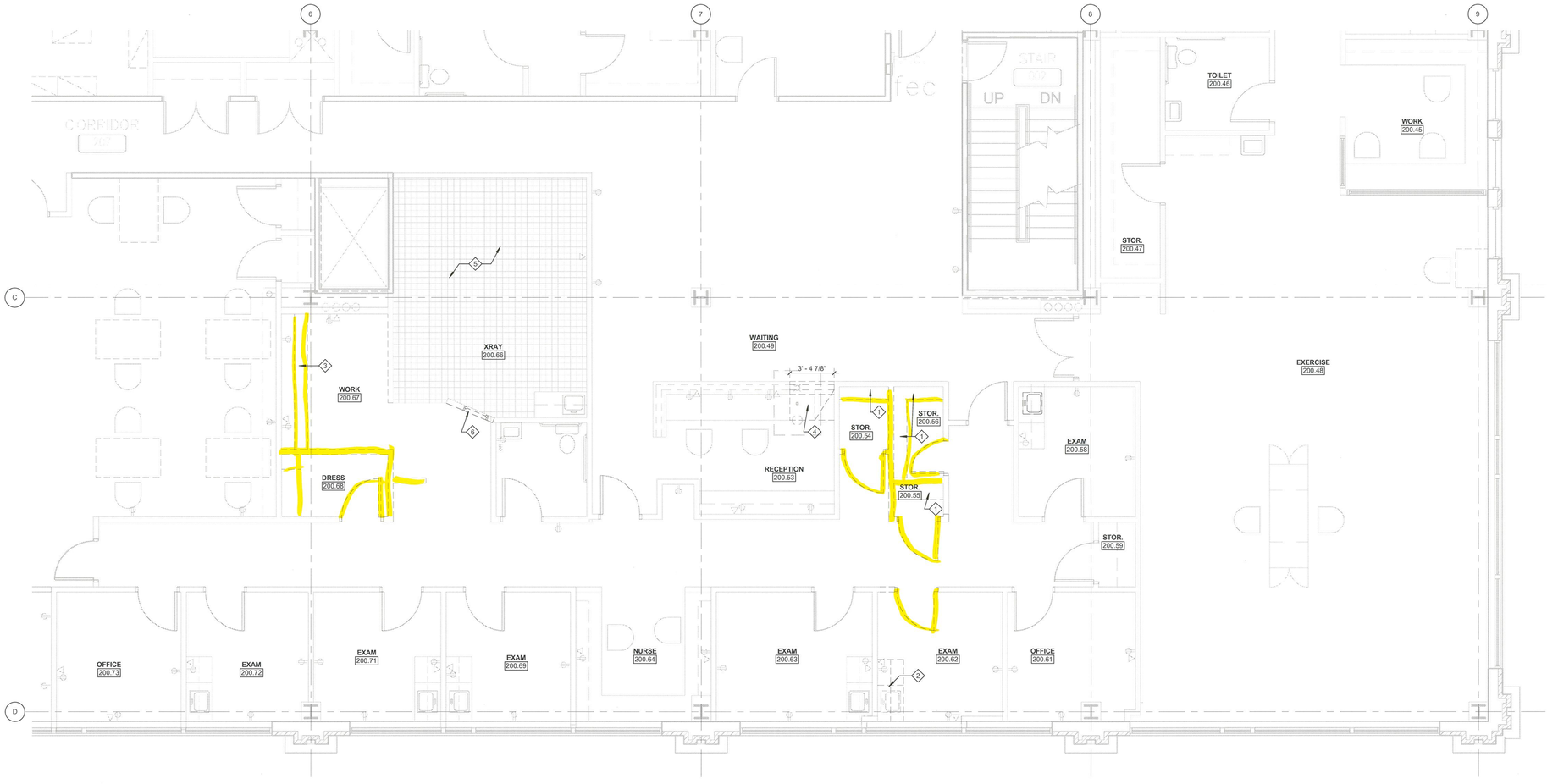

2 DEMOLITION PLAN
1/4" = 1'-0"

DEMOLITION PLAN LEGEND

DEMOLISH WALL

EXISTING WALL TO REMAIN

REMOVE DOOR AND FRAME - SALVAGE FOR REUSE.

EXISTING DOOR TO REMAIN

DEMOLITION PLAN GENERAL NOTES

A. ALL ELECTRICAL DEVICES ON EXTERIOR WALLS TO REMAIN.

B. SALVAGE ALL DOORS AND HARDWARE IN GOOD CONDITION. TOUCH UP DOORS, CLEAN AND WAX.

C. BAG ALL EXISTING BLINDS AND CLEAN AFTER CONSTRUCTION IS COMPLETE. REPAIR ALL CRACKED OR BROKEN BLINDS.

D. X-RAY EQUIPMENT TO BE REMOVED BY HOSPITAL PRIOR TO DEMOLITION.

DEMOLITION PLAN KEYNOTES

1. DEMOLISH SHELVING.
2. DEMOLISH COUNTERTOP, UPPER AND LOWER CABINETS AND SINK. CAP PLUMBING AT SOURCE.
3. DEMOLISH COUNTERTOP, UPPER AND LOWER CABINETS.
4. DEMOLISH PORTION OF RECEPTION DESK AND TRANSACTION TOP. RELOCATE EXISTING 18"W X 30"H BBF, REFER TO A-201 FOR LOCATION.
5. REMOVE EXISTING VCT.
6. REMOVE WALL AND SHEILDING, PATCH AND REPAIR ADJACENT WALLS AS NECESSARY.

10-490136

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CONSTRUCTION DOCUMENTS 07.19.2010

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Sheet Information

Sheet Title:
DEMOLITION PLAN

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:

AD-201

DPA Project: 10814.00

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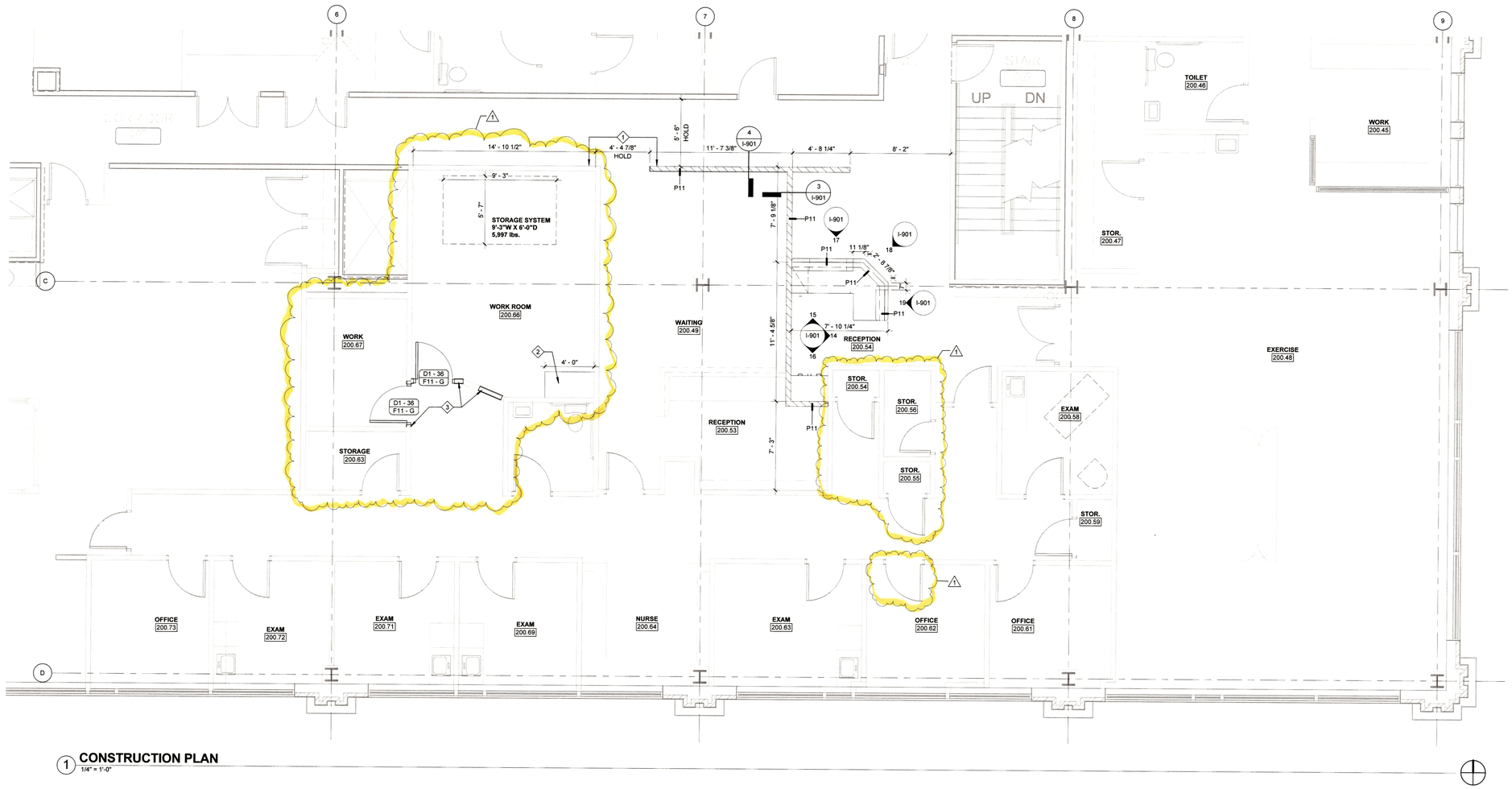

1 CONSTRUCTION PLAN
1/4" = 1'-0"

CONSTRUCTION PLAN LEGEND

- NEW WALL
- NEW PARTIAL HEIGHT WALL
- EXISTING WALL
- NEW OR RELOCATED DOOR
- EXISTING DOOR

CONSTRUCTION PLAN GENERAL NOTES

A. PROVIDE FIRE RATED WALL BACKING AT ALL CASEWORK LOCATIONS.
B. ALL RECEPTACLE COVERS AND SWITCH PLATES, ETC. SHALL BE WHITE.
C. PROVIDE GROMMETS AT ALL WORK AREA COUNTERTOPS, PROVIDED BY MILLWORKER.
D. ALL DIMENSIONS ARE TO FINISHED FACE OF GYP. UNLESS NOTED OTHERWISE.
E. PROVIDE IN-WALL STEEL TUBE COUNTERTOP SUPPORTS AS NECESSARY.
F. PATCH AND REPAIR WALLS ON INTERIOR AT AREAS OF DEMOLITION.
G. PROVIDE 2" RADIUS CURVED EDGES AT ALL EXPOSED CORNERS.
H. FILL ALL HOLES IN WALLS AND PREPARE WALLS FOR NEW PAINT.
I. REFINISH AND TOUCH UP ALL DOORS.
J. REPAIR ALL EXISTING COUNTERTOPS AS REQUIRED.

CONSTRUCTION PLAN KEYNOTES

1. ALIGN NEW WALL WITH EXISTING WALL OR COLUMN.
2. PROVIDE RELOCATED P-LAM COUNTER TOP, TO BE INSTALLED ON EXISTING BASE CABINETS.
3. PROVIDE WALL TO UNDERSIDE OF FINISHED CEILING

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PR #001	2010.09.14	1

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Sheet Information

Sheet Title:
CONSTRUCTION PLAN

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
A-201

DPA Project: 10814.00

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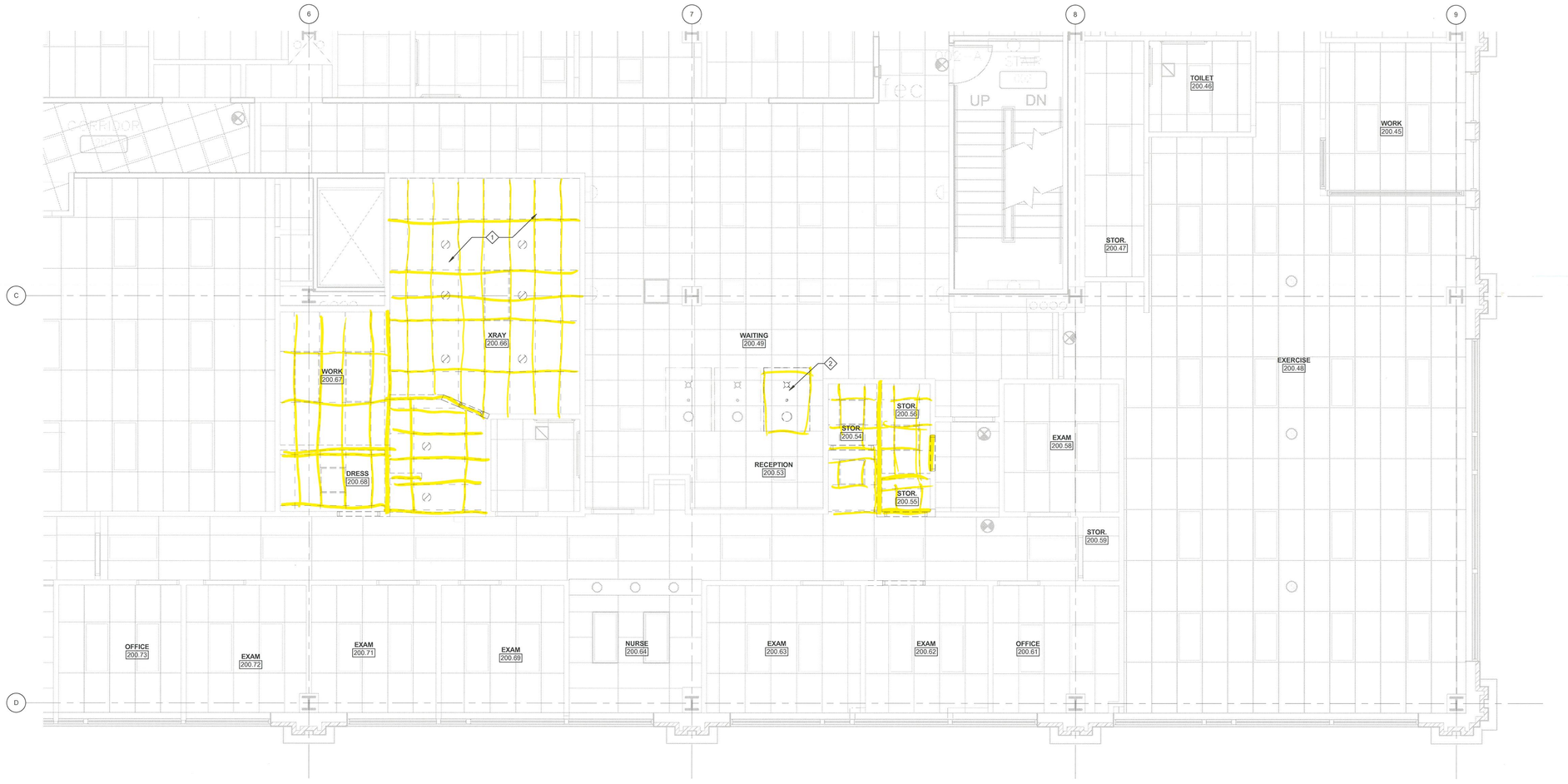

1 DEMOLITION RCP
1/4" = 1'-0"

RCP DEMOLITION PLAN LEGEND

EXISTING GRID, CEILING TILES AND LIGHTS TO REMAIN.

DEMO GRID AND CEILING TILES. SALVAGE LIGHTS FOR REUSE.

EXISTING RECESSED LIGHT FIXTURES TO REMAIN.

REMOVE RECESSED LIGHT FIXTURES. SALVAGE LIGHTS FOR REUSE.

RCP DEMOLITION PLAN GENERAL NOTES

A. SALVAGE ALL LIGHT FIXTURES FOR REUSE.

RCP DEMOLITION PLAN KEYNOTES

1. REMOVE X-RAY EQUIPMENT.
2. REMOVE WOOD CEILING PANEL, PENDANT LIGHT & RECESSED CAN.

10-490136

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Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.19.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
DEMOLITION REFLECTED CEILING PLAN

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
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DPA Project: 10814.00

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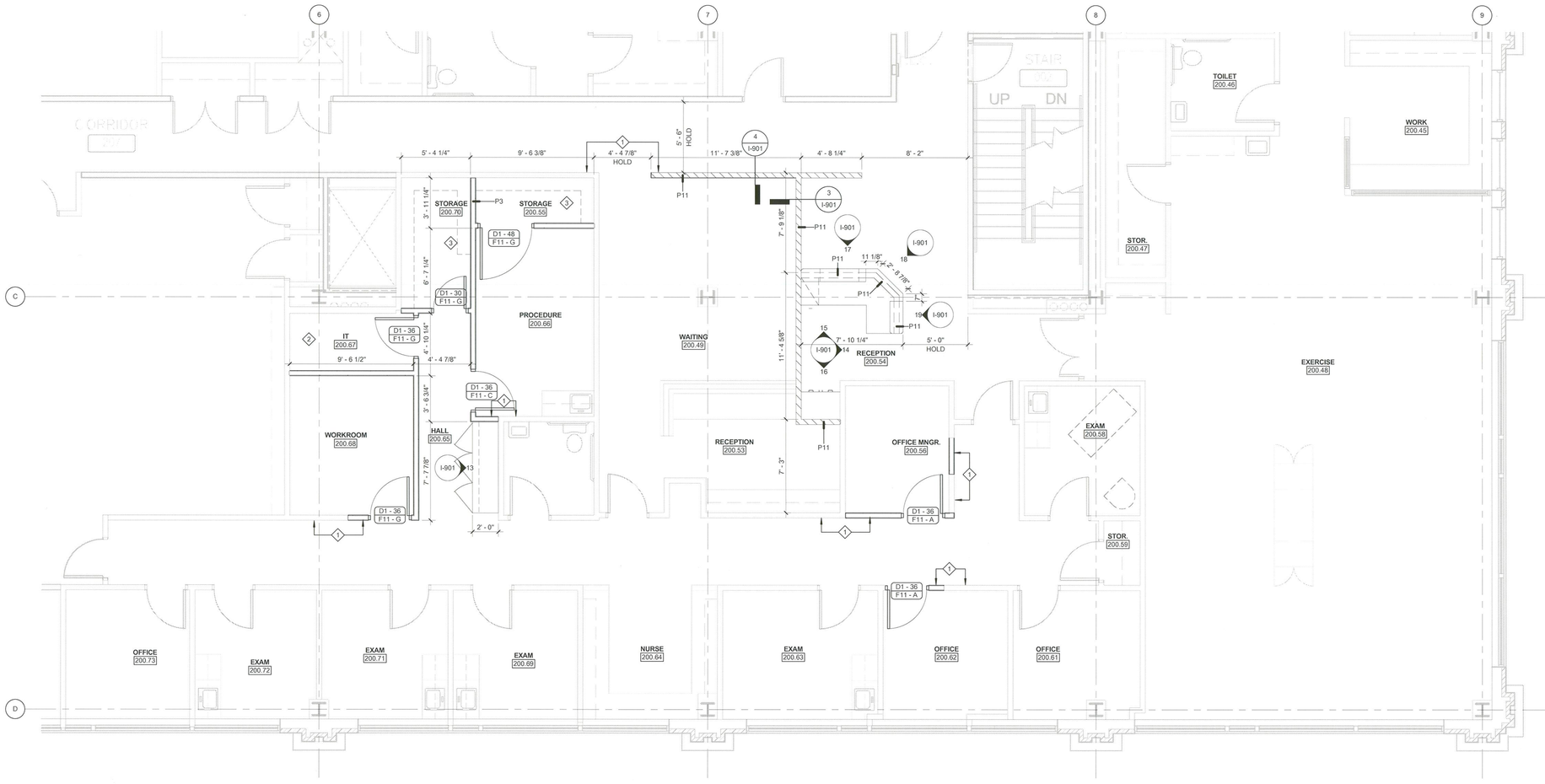

1 **CONSTRUCTION PLAN**
1/4" = 1'-0"

CONSTRUCTION PLAN LEGEND

- NEW WALL
- NEW PARTIAL HEIGHT WALL
- EXISTING WALL
- NEW OR RELOCATED DOOR
- EXISTING DOOR

CONSTRUCTION PLAN GENERAL NOTES

A. PROVIDE FIRE RATED WALL BACKING AT ALL CASEWORK LOCATIONS.
B. ALL RECEPTACLE COVERS AND SWITCH PLATES, ETC. SHALL BE WHITE.
C. PROVIDE GROMMETS AT ALL WORK AREA COUNTERTOPS, PROVIDED BY MILLWORKER.
D. ALL DIMENSIONS ARE TO FINISHED FACE OF GYP. UNLESS NOTED OTHERWISE.
E. PROVIDE IN-WALL STEEL TUBE COUNTERTOP SUPPORTS AS NECESSARY.
F. PATCH AND REPAIR WALLS ON INTERIOR AT AREAS OF DEMOLITION.
G. PROVIDE 2" RADIUS CURVED EDGES AT ALL EXPOSED CORNERS.
H. FILL ALL HOLES IN WALLS AND PREPARE WALLS FOR NEW PAINT.
I. REFINISH AND TOUCH UP ALL DOORS.
J. REPAIR ALL EXISTING COUNTERTOPS AS REQUIRED.

CONSTRUCTION PLAN KEYNOTES

1. ALIGN NEW WALL WITH EXISTING WALL OR COLUMN.
2. PROVIDE WOOD BACKERBOARD COORDINATE SIZE WITH IT VENDOR.
3. 5 HIGH ADJUSTABLE SHELVES ON STANDARDS. RE: DETAIL 8/I-901.

10-490136

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Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.19.2010	

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MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
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Sheet Information

Sheet Title:
CONSTRUCTION PLAN

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
A-201

DPA Project: 10814.00

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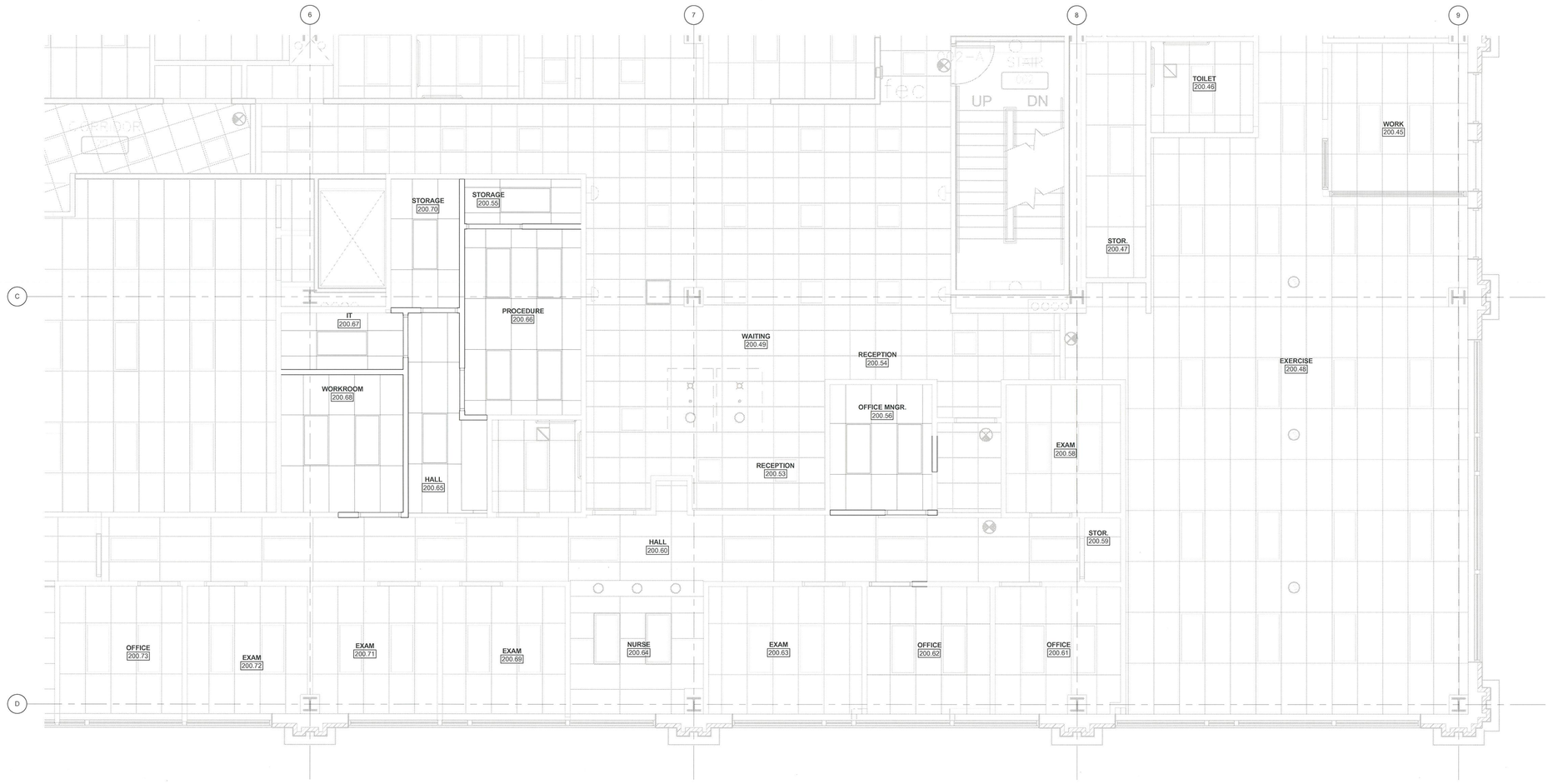

1 REFLECTED CEILING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND	
	EXISTING LIGHTS, GRID AND CEILING TILES.
	NEW 2X4 LIGHTS, GRID AND CEILING TILES TO MATCH EXISTING.
	EXISTING EXIT SIGN

REFLECTED CEILING PLAN GENERAL NOTES

A. ALL CEILING HEIGHTS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

10-490136

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE 7.9.10

DAVIS PARTNERSHIP ARCHITECTS

Denver | 2301 Blake Street, Suite 100 Denver, CO 80205 303.861.8555

Vail | 0225 Main Street, Unit C101 Edwards, CO 81632 970.926.8960

Consultant

STATE OF COLORADO
BRIAN WILLIAM ERICKSON
304813
LICENSED ARCHITECT

Issue/Revisions | Date | No.

CONSTRUCTION DOCUMENTS 07.19.2010

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
REFLECTED CEILING PLAN

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
A-301

DPA Project: 10814.00

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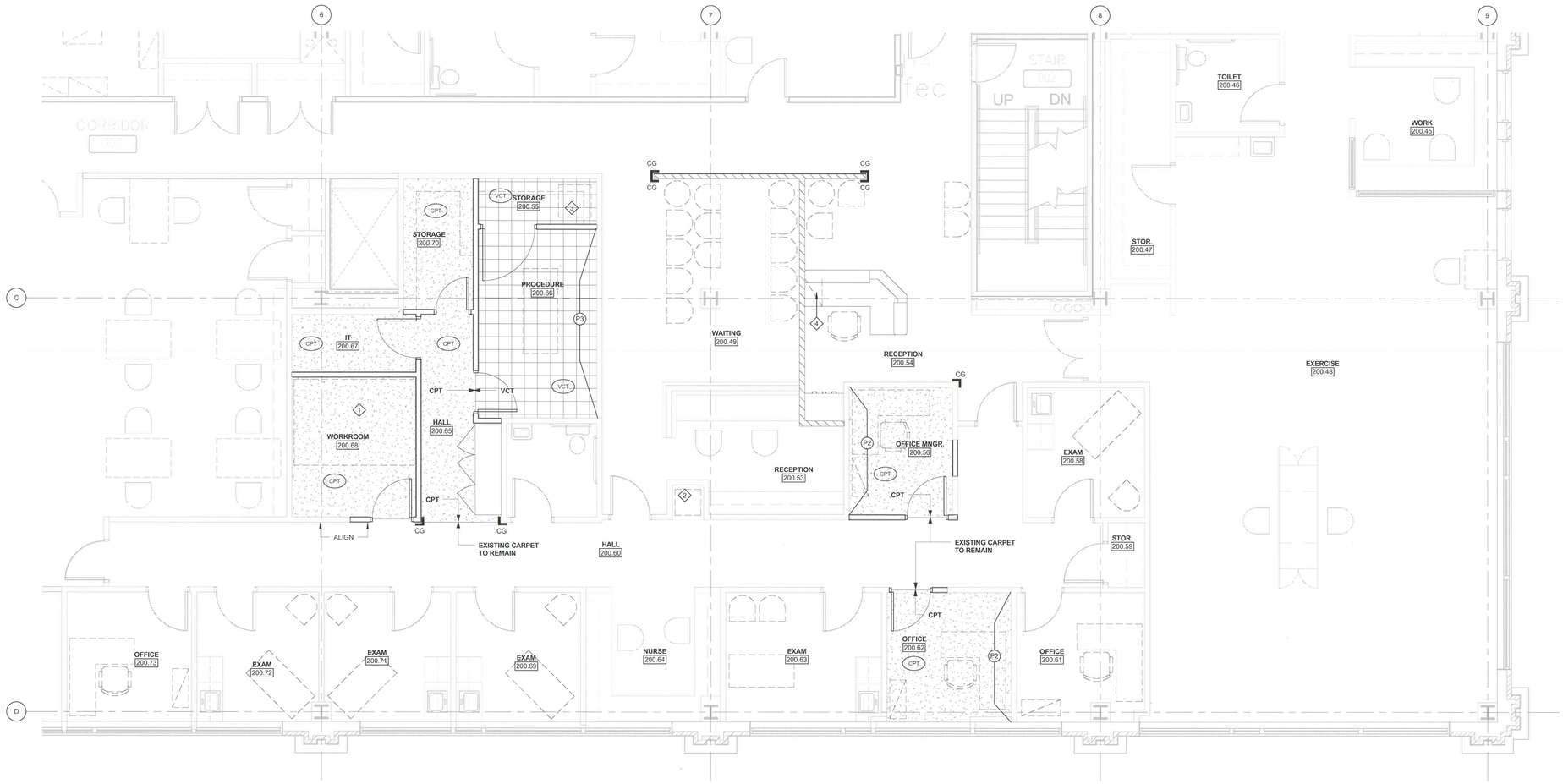
7/20/2010 10:30:12 AM



1 FURNITURE, FINISH & EQUIPMENT PLAN

1/4" = 1'-0"

FINISH SCHEDULE										
Name	Number	Floor Finish	Base Finish	Wall Finish N	Wall Finish E	Wall Finish S	Wall Finish W	Ceiling Finish	Casework Finish	Remarks
LEVEL 1										
WAITING	200.49	EX	EX	P1	P1	P1	P1	EX		4
RECEPTION	200.54	EX	RB1	P1	P1	P1	P1	EX	PL1, PL2, PL3	1,4
STORAGE	200.55	VCT	RB3	P1	P1	P1	P1	ACT1		
OFFICE MNGR.	200.56	CPT	RB2	P1	P1	P1	P2	ACT1		3
EXAM	200.58	EX	EX	EX	EX	EX	EX	EX		
HALL	200.60	EX	RB2	P1	EX	EX	EX	EX		
OFFICE	200.62	CPT	RB2	P2	P1	P1	P1	EX		
HALL	200.65	EX	EX	P1	P1	P1	P1	ACT1		4
PROCEDURE	200.66	VCT	RB3	P1	P1	P2	P1	ACT1		2,3
IT	200.67	CPT	RB2	P1	P1	P1	P1	ACT1		
WORKROOM	200.68	CPT	RB2	P1	P1	P1	P1	ACT1		
STORAGE	200.70	CPT	RB2	P1	P1	P1	P1	ACT1		

REMARKS

1. Casework to read:
   Cabinet body and door finish / Counter top finish / Front face of reception desk
2. Provide ADA compliant transition, re: 10/I-901.
3. Refer to plan for extent of accent paint walls.
4. Provide corner guard (CG) above base to 48"AFF, refer to 1/I-201 for location and 11, 12/I-901 for details.

FFE PLAN LEGEND

FLOOR FINISH

CPT Carpet, Broadloom
Manuf: Bentley Prince Street
Style: North Adams #8NM30
Color: TBD
Contact: Tara Kalva @ (303) 875-5695

VCT 12" x 12" Vinyl Composition Tile
Manuf: Armstrong
Style: Excelon
Color: Multi Sand #51986

WALL BASE

RB1 4" Rubber Cove Base
Manuf: Johnsonite
Color: OOK Dark Oak

RB2 4" Rubber Cove Base
Manuf: Roppe
Color: P193 Black Brown

RB3 4" Rubber Cove Base
Manuf: Johnsonite
Color: 130 Sisal

WALL FINISH

P1 Match Existing Field Paint
Manuf: Benjamin Moore
Color: #185 Precious Ivory

P2 Match Existing Accent Paint
Manuf: Benjamin Moore
Color: #HC161 Templeton Gray

P3 Match Existing Manuf:
Color: Benjamin Moore
#HC28 Shelburne Buff

CG Match Existing Fiberglass Corner Guards
Manuf: C/S Acrovyn
Style: #SSM-20 with closure caps
Size: 2"W
Color: #519 Buttercream
Texture: Pebblette

MILLWORK

PL1 Plastic Laminate - Cabinets
Manuf: Wilsonart
Color: Huntington Maple #7929-38

PL2 Plastic Laminate - Countertops
Manuf: Wilsonart
Color: Graphite Nebula #4623-60

PL3 Plastic Laminate - Front Face of Reception
Manuf: Formica
Color: Graphite #837-58

CEILING FINISH

ACT Acoustical Ceiling Tile
Match Existing

GYP Painted Gypsum Board Ceiling/Soffits

MISCELLANEOUS

EX Existing to Remain

R Relocated casework, provide finished end where necessary.

ME Match relocated cabinet color.

FINISH PLAN GENERAL NOTES

A. Provide wall and ceiling finishes that comply with and meet the flame spread rating requirements from Section 803 and Table 803.5 of 2006 the International Building Code.

B. All paint finishes to be satin finish: (2) coats over (1) coat primer, U.N.O

C. Install all broadloom carpet in one pile direction.

D. Paint all new door frames P3 to match existing.

E. Provide ADA compliant rubber transitions at all floor material. Color to be selected through submittals.

F. Paint new walls P1 U.N.O. Touch up paint at areas of demolition.

G. All ceiling grid wall angles to be sealant at wall where paint occurs.

J. All floor transitions to align with center of door in closed position.

K. Paint all gyp. bd. soffits at exterior walls to match faced paint color.

L. All new ceiling tiles to match existing.

FINISH PLAN KEYNOTES

1. STORAGE CABINETS, BY TENANT.
2. SCALE, BY TENANT
3. EMG CART, BY TENANT
4. RELOCATED BBF FROM RECEPTION 200.53

10-490136

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE 8/3/10

DAVIS PARTNERSHIP ARCHITECTS

Denver 2301 Blake Street, Suite 100
Denver, CO 80205 303.861.8555

Vail 0225 Main Street, Unit C101
Edwards, CO 81632 970.926.8960

Consultant

STATE OF COLORADO
BRIAN WILLIAM ERICKSON
304813
LICENSED ARCHITECT

Issue/Revisions | Date | No.

CONSTRUCTION DOCUMENTS 07.19.2010

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
FURNITURE, FINISH & EQUIPMENT PLAN

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
I-201

DPA Project: 10814.00

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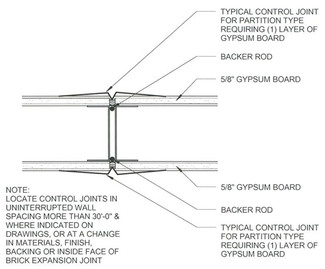
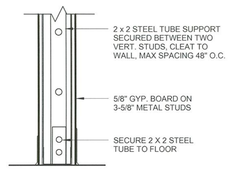
7/30/2010 10:36:31 AM

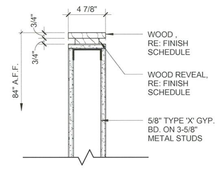
1 SLIP JOINT DETAIL
1 1/2" = 1'-0"



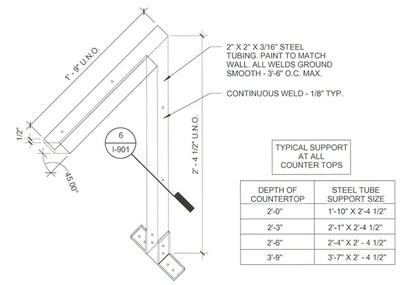
2 TYPICAL PARTITION CONTROL JOINT DETAIL
3" = 1'-0"



3 PARTIAL HEIGHT WALL SECTION
1 1/2" = 1'-0"

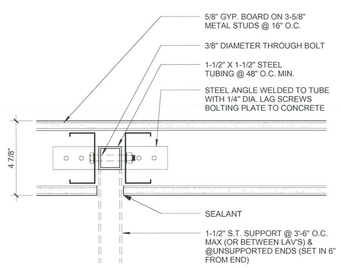


4 PARTIAL HEIGHT WALL CAP
1 1/2" = 1'-0"

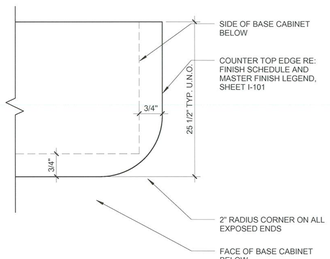


DEPTH OF COUNTERTOP	STEEL TUBE SUPPORT SIZE
2'-0"	1'-10" X 2'-4 1/2"
2'-3"	2'-1" X 2'-4 1/2"
2'-6"	2'-4" X 2' - 4 1/2"
3'-9"	3'-7" X 2' - 4 1/2"

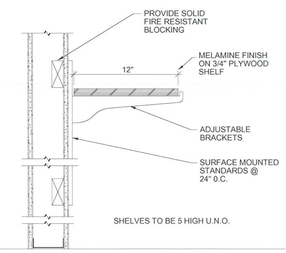
5 STEEL TUBE SUPPORT ISOMETRIC
1 1/2" = 1'-0"



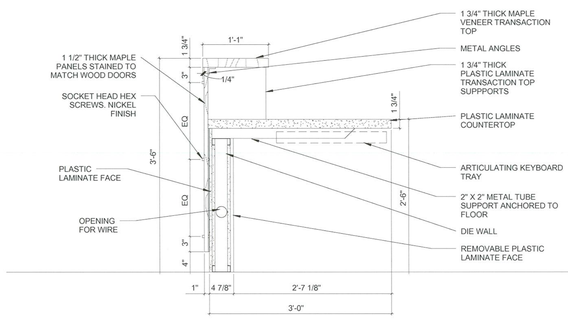
6 TYPICAL SECTION @ STEEL TUBE SUPPORT
3" = 1'-0"



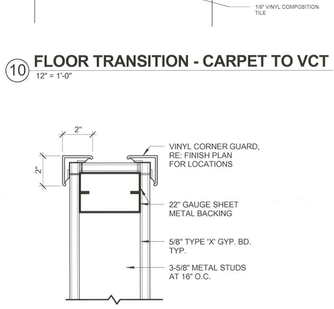
7 RADIUS CORNER DETAIL
6" = 1'-0"



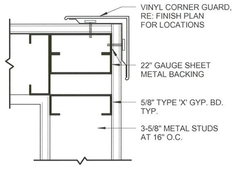
8 DETAIL - ADJUSTABLE SHELVES
1 1/2" = 1'-0"



9 SECTION AT RECEPTION DESK
1/2" = 1'-0"

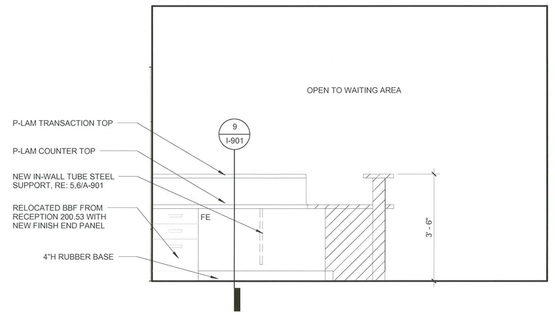


10 FLOOR TRANSITION - CARPET TO VCT
12" = 1'-0"

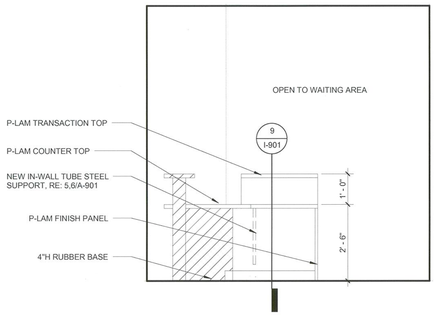


11 STANDARD CORNER GUARD
1 1/2" = 1'-0"

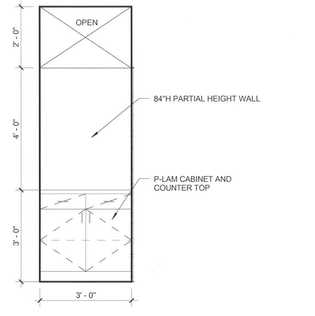
12 END WALL CORNER GUARD
1 1/2" = 1'-0"



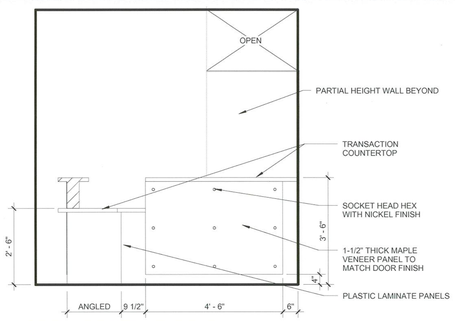
15 RECEPTION 200.54 NORTH
1/2" = 1'-0"



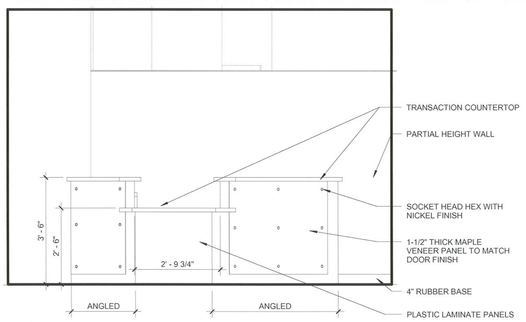
14 RECEPTION 200.54 EAST
1/2" = 1'-0"



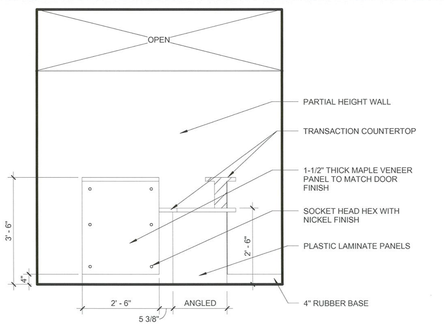
16 RECEPTION 200.54 SOUTH
1/2" = 1'-0"



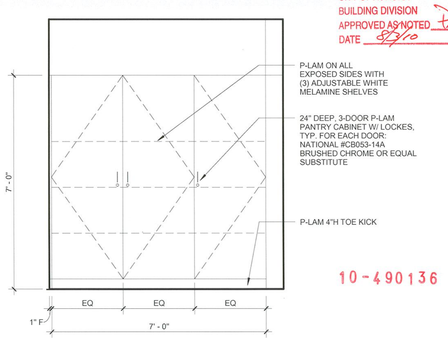
17 RECEPTION 200.54 SOUTH
1/2" = 1'-0"



18 RECEPTION 200.54 SOUTHWEST
1/2" = 1'-0"



19 RECEPTION 200.54 WEST
1/2" = 1'-0"



13 HALL 200.65 EAST
1/2" = 1'-0"

DAVIS PARTNERSHIP ARCHITECTS
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Vail | 0225 Main Street, Unit C101 Edwards, CO 81632 970.926.8960

Consultant

STATE OF COLORADO
BRIAN WILLIAM ERICKSON
304813
LICENSED ARCHITECT
6.2.10

Issue/Revisions | Date | No.

CONSTRUCTION DOCUMENTS 07.19.2010

This plan was reviewed for adopted codes and NOT reviewed for compliance with ADA or FHA accessibility. Contact 800-949-4232 (ADA) and 303-894-7822x325 (FHA) for federal accessibility requirements that apply to your project.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE 8/3/10

10-490136

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
INTERIOR ELEVATIONS AND DETAILS

CONSTRUCTION DOCUMENTS 16 JULY 2010

Sheet Number:
I-901

DPA Project: 10814.00

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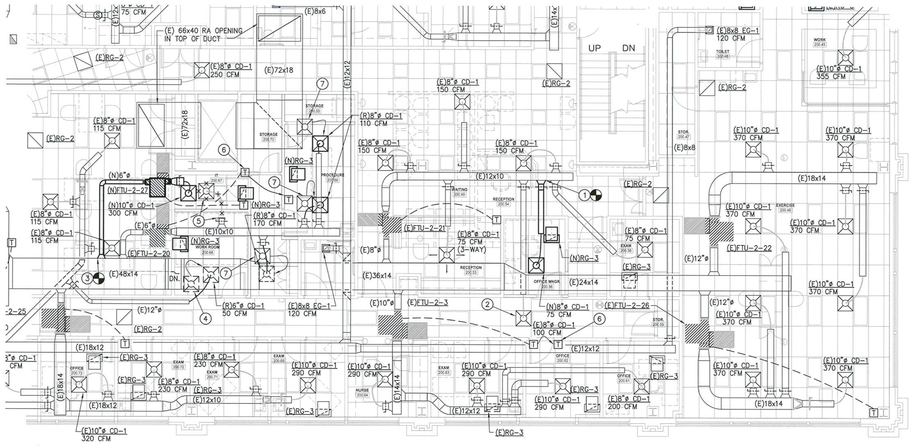
7/30/2010 10:36:46 AM



PARTIAL SECOND FLOOR HVAC PLAN

SCALE: 1/8"=1'-0"

MECHANICAL GENERAL NOTES:

1. CONTRACTOR SHALL INSPECT SITE TO BECOME FAMILIAR WITH THE SCOPE OF THE WORK. THESE DOCUMENTS DO NOT REFLECT AS-BUILT CONDITIONS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
2. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ABOVE CEILING EQUIPMENT, DUCTWORK AND CEILING MOUNTED AIR DEVICES WITH EXISTING ARCHITECTURAL , STRUCTURAL, ELECTRICAL AND MECHANICAL CONDITIONS. APPROXIMATE LOCATIONS OF NEW WORK ARE SHOWN AND SHOULD BE FOLLOWED AS CLOSE AS EXISTING CONDITIONS WILL ALLOW.
3. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
4. WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM WILL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING AIR DEVICES AND ACCESS PANELS. OBTAIN CLARIFICATION FROM THE ARCHITECT, IF EXACT LOCATIONS ARE NOT SHOWN.
6. THE MECHANICAL SYSTEMS SHOWN SHALL BE RUN AS HIGH AS POSSIBLE. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION.
7. COORDINATE THERMOSTAT, SENSOR AND SWITCH LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
8. BALANCE AIR AND WATER SYSTEMS TO THE QUANTITIES SHOWN AND SUBMIT BALANCE REPORT (S) TO THE ARCHITECT/ENGINEER FOR REVIEW.
9. THE TEST AND BALANCE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE BUILDING MANAGEMENT OF ANY SYSTEMS THAT CANNOT BE BALANCED OR ANY DEFECTIVE EQUIPMENT. DUCTWORK, OR CONTROLS. THE BUILDING MANAGEMENT SHALL THEN DETERMINE THE COURSE OF ACTION TO CORRECT THE SITUATION DURING THE CONSTRUCTION OF THE TENANT SPACE.
10. PORTIONS OF THIS BUILDING WILL BE OCCUPIED DURING THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SCHEDULING OF THEIR WORK WITH THE GENERAL CONTRACTOR. CLEAN UP AT THE END OF EACH DAY.
11. THERMOSTATS AND CONTROL SEQUENCES SHALL MATCH THE BUILDING STANDARD. COORDINATE ALL REQUIREMENTS WITH BUILDING MANAGEMENT.

HVAC KEYNOTES:

1. CONNECT 8" DUCT TO EXISTING WITH CONICAL FITTING AND DAMPER.
2. RE-BALANCE DIFFUSER FROM 175 CFM TO 100 CFM.
3. CONNECT 6" MEDIUM PRESSURE DUCT TO EXISTING.
4. RELOCATE DIFFUSER IN NEW GRID. BALANCE TO REMAIN UNCHANGED.
5. REMOVE DIFFUSER AND CAP DUCTWORK.
6. RELOCATE THERMOSTAT AS SHOWN.
7. RELOCATE DIFFUSER IN NEW GRID AND RE-BALANCE TO CFM INDICATED.

LEGEND:

- POINT OF CONNECTION – NEW TO EXISTING
- (E) EXISTING
- (N) NEW
- (R) RELOCATED
- FIRE/SMOKE DAMPER
- EXISTING FIRE/SMOKE DAMPER
- SMOKE DAMPER

PLUMBING GENERAL NOTES:

1. FIELD VERIFY EXACT LOCATION OF ALL CONNECTION POINTS PRIOR TO CONSTRUCTION.
2. ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
3. CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINNER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
4. ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.

SPECIFICATION (PLUMBING)

PIPING:
- A) WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT CAST-IRON WITH NO-HUB FITTINGS.
- B) WATER PIPING SHALL BE TYPE "L" COPPER WITH NO LEAD SOLDER OR FLUX FITTINGS.

INSULATION:
- A) WATER PIPING INSULATION SHALL BE CONSISTENT WITH EXISTING PIPE INSULATION OR 1" THICK, 1-1/2 LB/CUBIC FT. DENSITY; WHICHEVER IS BETTER QUALITY.

FIRE PROTECTION GENERAL NOTES:

1. ALL WORK SHALL BE PER LOCAL BUILDING AND FIRE DISTRICT APPROVAL.
3. ALL PIPING SHALL CONFORM TO NFPA 13.
4. PROVIDE SHOP DRAWINGS FOR ALL WORK THAT ADHERES TO ALL LOCAL CODES, BUILDING OWNER INSURANCE CARRIER, AND NFPA REQUIREMENTS.
5. PROVIDE HYDRAULIC CALCULATION ALONG WITH SHOP DRAWINGS FOR ARCHITECT/ENGINEER/ OWNER/CODE APPROVAL.
6. ALL FIRE SPRINKLER HEADS SHALL BE WHITE FINISHED SEMI-RECESSED IN FINISH AREAS AND BRASS PENDANT IN UNFINISHED AREAS. ALL HEADS SHALL BE LOCATED IN CEILING TILES IN A UNIFORM PATTERN. 1/4" POINTS IN 2x4 GRID IS ACCEPTABLE.
6. REPLACE CONCEALED HEADS IN X-RAY ROOM WITH WHITE FINISHED SEMI-RECESSED TO MATCH.

PLUMBING DEMOLITION KEYNOTES:

1. REMOVE EXISTING FIXTURE AND CAP ASSOCIATED PIPING BEHIND WALL. RETURN FIXTURE TO OWNERS STOCK.
2. EXISTING TO REMAIN UNCHANGED.

FAN TERMINAL UNIT SCHEDULE (COOLING ONLY)

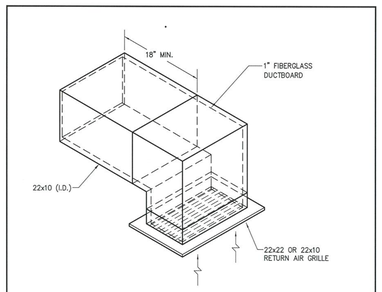
PLAN CODE	MANUFACTURER & MODEL NO.	COOLING CFM MAX	COOLING CFM MIN	MIN. O.P. INLET S.P.	FAN TOTAL CFM	FAN FAN CFM	FAN ESP	FAN ELECTRICAL HP	FAN ELECTRICAL VOLTS	FAN ELECTRICAL ø	FAN ELECTRICAL RPM	DIMENSIONS L	W	H	INLET	OUTLET	OPER. WEIGHT	MAX. SOUND (db)	CONTROL	REMARKS
FTU-2-27	ENVIRO-TEC VFR SIZE 2	300	0	1.0	210	120	0.5	1/6	120	1	1750	41"	36"	17"	6"ø	16" x 13"	150	64	NOTE: 1,2	PARALLEL FLOW ARRANGEMENT

NOTES:
1. MODULATE PRIMARY AIR DAMPER DURING OCCUPIED MODE TO MAINTAIN SPACE TEMPERATURE.
2. STAGE FAN AND CLOSE PRIMARY AIR DAMPER DURING UN-OCCUPIED MODE TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE.

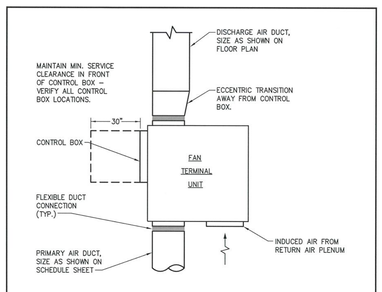
GRILLES, REGISTERS & DIFFUSERS SCHEDULE

CODE	MANUFACTURER & MODEL NO.	SERVICE	FACE SIZE	NECK SIZE	VOLUME DAMPER	MOUNTING	FINISH	MATERIAL	REMARKS
CD-1	TITUS TDC	SUPPLY	24x24	AS SHOWN	NO	LAY-IN	WHITE	STEEL	4-WAY THROW EXCEPT WHERE NOTED OTHERWISE
CD-2	TITUS TDC-AA	SUPPLY	24x24	AS SHOWN	NO	SURFACE	WHITE	ALUM.	4-WAY THROW EXCEPT WHERE NOTED OTHERWISE
RG-1	TITUS PXP	RETURN	12x24	–	NO	LAY-IN	WHITE	STEEL	
RG-2	TITUS PXP	RETURN	24x24	–	NO	LAY-IN	WHITE	STEEL	
RG-3	TITUS PAR	RETURN	12x24	10x22	NO	LAY-IN	WHITE	STEEL	1
RG-4	TITUS PAR	RETURN	24x24	22x22	NO	LAY-IN	WHITE	STEEL	1
ER-1	TITUS 350 FL	EXHAUST	NECK + 2"	AS SHOWN	YES	SURFACE	WHITE	ALUM.	
EG-1	TITUS PAR	EXHAUST	NECK + 2"	AS SHOWN	NO	LAY-IN	WHITE	STEEL	
TG-1	TITUS 350 FL	TRANSFER	NECK + 2"	AS SHOWN	NO	SURFACE	WHITE	ALUM.	

1 PROVIDE SOUND BOOT, SEE DETAIL 1/M-201

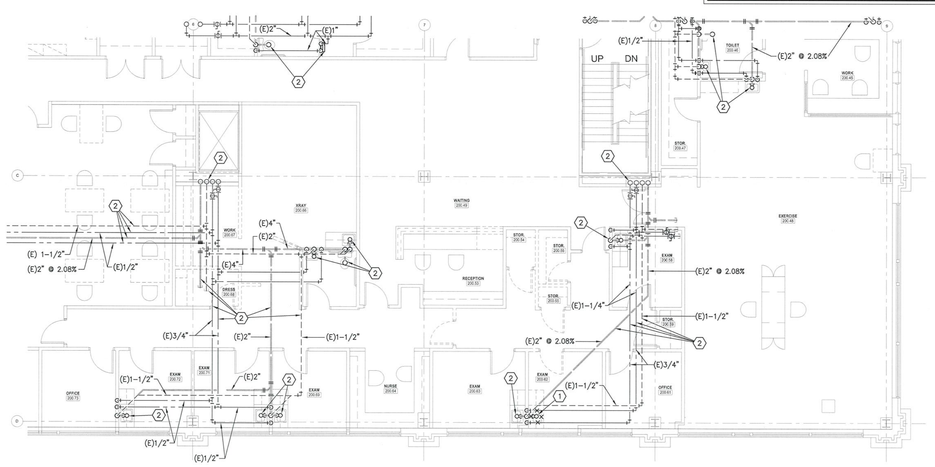


1/M-201 RETURN AIR GRILLE DETAIL
SCALE: NONE
TRANSFER GRILLE SIMILAR



2/M-201 FAN TERMINAL UNIT DUCT INSTALLATION DETAIL
SCALE: NONE

THERE IS NO "NEW WORK" PLUMBING FLOOR PLAN. THE SCOPE OF WORK IS REMOVING THE SINK AS SHOWN.



10-490136

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE 8/3/10

PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN

SCALE: 1/8"=1'-0"

DAVIS PARTNERSHIP ARCHITECTS

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Project Information

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Sheet Information

Sheet Title:
PARTIAL SECOND FLOOR HVAC AND PLUMBING PLAN

CONSTRUCTION DOCUMENTS 29 JULY 2010

Sheet Number:
M-201

DPA Project: 10814.00

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GENERAL ELECTRICAL LEGEND

(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING		
	RECESSED FLUORESCENT LUMINAIRE, LAY-IN		RECESS MOUNTED WALL LUMINAIRE
	RECESSED FLUORESCENT LUMINAIRE, FLANGED	PC	PORCELAIN KEYLESS LAMPHOLDER, BRYANT #5228 W/ 100W A19 I.F. LAMP. 'PC' INDICATES PULLCHAIN
	SURFACE OR PENDANT MOUNTED LUMINAIRE		TRACK LIGHTING
	SURFACE OR PENDANT MOUNTED STRIP OR INDUSTRIAL LUMINAIRE		EMERGENCY LIGHTING UNIT
a A	SHADING INDICATES EM SYSTEM, LOWER CASE SUBSCRIPT INDICATES SWITCHING, UPPER CASE SUBSCRIPT INDICATES LUMINAIRE TYPE (TYP)		EXIT LIGHT, ARROWS AS INDICATED, FACES INDICATED BY SHADING
	SURFACE MOUNTED CEILING LUMINAIRE (EXTERIOR BOLLARD LUMINAIRE ON SITE PLAN)		POLE MOUNTED LUMINAIRE
	SURFACE MOUNTED WALL LUMINAIRE		SPOT LIGHT
	RECESS MOUNTED CEILING LUMINAIRE		DARKROOM SAFE LIGHT (TWO COMPARTMENT SHOWN)
	RECESS MOUNTED CEILING LUMINAIRE-DIRECTIONAL		UNDERCOUNTER LIGHTING
	POWER		
	SINGLE RECEPTACLE		MOTOR STARTER
	DUPLEX RECEPTACLE	PM	PLUG-MOLD (MULTI-OULET ASSEMBLY)
GFI	DUPLEX RECEPTACLE, GROUND FAULT PROTECTION	WM	WIREMOLD (SURFACE RACEWAY)
IG	DUPLEX RECEPTACLE, ISOLATED GROUND		CONNECTION TO PREWIRED EQUIPMENT
	DOUBLE DUPLEX RECEPTACLE		FLEXIBLE WIRING CABLE
	DUPLEX RECEPTACLE, HALF SWITCHED		CONDUIT, CONCEALED
	DUPLEX RECEPTACLE, CEILING MOUNTED		CONDUIT, EXPOSED
	DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT, UNDERGROUND OR CONCEALED IN FLOOR
	DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED		CONDUIT TURNING DOWN
	SPECIAL RECEPTACLE		CONDUIT TURNING UP
	SPECIAL RECEPTACLE, FLOOR MOUNTED		CONDUIT CAPPED
T	THERMOSTAT	A-1,3,5	BRANCH CIRCUIT HOME RUN, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, SUBSCRIPT INDICATES PANEL & CIRCUITS
J	JUNCTION BOX, WALL OR CEILING MOUNTED		GROUND BAR
J	JUNCTION BOX, FLOOR MOUNTED		ELECTRICAL PANELBOARD, CONTROL PANEL OR OTHER CABINET, AS NOTED
#	FLEXIBLE WIRING DISTRIBUTION BOX		MAIN SWITCHBOARD/DISTRIBUTION CENTER
M	MOTOR	T	TRANSFORMER
	DISCONNECT SWITCH (NON-FUSED)	CT	CURRENT TRANSFORMER CABINET
F	DISCONNECT SWITCH (FUSED)	M	UTILITY METER
	COMBINATION STARTER/DISCONNECT	GANN	GENERATOR ANNUNCIATOR PANEL
	SWITCHING		
S_a	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)	S_{LV}	LOW VOLTAGE SWITCH
S_2	TWO POLE SWITCH	S_{VS}	VARIABLE SPEED SWITCH
S_3	THREE-WAY SWITCH	S_{EP}	EXPLOSION PROOF SWITCH
S_4	FOUR-WAY SWITCH	S_{TO}	THERMAL OVERLOAD SWITCH
S_K	KEY OPERATED SWITCH	S_{MC}	MOMENTARY CONTACT SWITCH
S_M	MANUAL SWITCH, HORSEPOWER RATED	S	COMBINATION SWITCH AND DUPLEX RECEPTACLE
S_D	DIMMER SWITCH	P	PHOTOCELL CONTROL
S_{PI}	SWITCH WITH PILOT LIGHT (PILOT LIGHT IS 'ON' WHEN SWITCH IS 'ON')		PUSHBUTTON
S_P	SWITCH WITH PILOT LIGHT LOCATOR (CONTINUOUSLY LIGHTED HANDLE)	TC	TIME CLOCK
			OCCUPANCY SENSOR
	REFERENCE SYMBOLS		
1	DETAIL NOTE REFERENCE	E	EXISTING TO REMAIN
1	KITCHEN EQUIPMENT REFERENCE	R	EXISTING TO BE REMOVED
UH	MECHANICAL EQUIPMENT REFERENCE	RL	EXISTING TO BE RELOCATED
		ER	EXISTING TO REMAIN – REPLACE DEVICE
	ABBREVIATIONS		
A	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
AC	ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE,+6" ABOVE COUNTER OR BACK SPLASH	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
ANN	ANNUNCIATOR	MTS	MANUAL TRANSFER SWITCH
ARF	ABOVE RAISED FLOOR	NC	NORMALLY CLOSED
ASSD	AIR SAMPLING SMOKE DETECTION	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	OC	ON CENTER
CB	CIRCUIT BREAKER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CCTV	CLOSED CIRCUIT TELEVISION	OFOI	OWNER FURNISHED, OWNER INSTALLED
(E)	EXISTING	OSWF	ON SITE WORK FORCE
EM	EMERGENCY	PB	PULL BOX
EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
EPO	EMERGENCY POWER OFF	TP	TAMPER PROOF .
EVO	EMERGENCY VENTILATION ON/OFF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
EWC	ELECTRIC WATER COOLER	TYP	TYPICAL
FA	FIRE ALARM	UF	UNDER FLOOR
G	GROUND	UG	UNDER GROUND
GCP	GENERATOR CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTING	UPS	UNINTERRUPTABLE POWER SUPPLY
HOA	HAND OFF AUTOMATIC	V	VOLTS
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	W/	WITH
MCB	MAIN CIRCUIT BREAKER	W/O	WITHOUT
MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
MDC	MAIN DISTRIBUTION CENTER	XFMR	TRANSFORMER

SYSTEMS LEGEND

(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TELEPHONE TERMINAL CABINET	CS	COMBINATION CLOCK/SPEAKER OUTLET
	TELEPHONE TERMINAL BACKBOARD	S_M	PAGING SYSTEM SPEAKER 'M' INDICATES MUSIC SYSTEM ONLY
	TELEPHONE OUTLET W=WALL, P=PAY	V	VOLUME CONTROL
	TELEPHONE OUTLET, FLOOR MOUNTED	M	MICROPHONE STATION
TP	TELEPHONE/POWER POLE	I	INTERCOM STATION
	DATA OUTLET		DOOR CONTACT
	DATA OUTLET, FLOOR MOUNTED	CR	CARD READER
	COMBINATION TELEPHONE/DATA OUTLET	MD IR/US	MOTION DETECTOR IR=INFRARED, US=ULTRASONIC, IR/US=COMBINATION
	COMBINATION TELEPHONE/DATA OUTLET, FLOOR MOUNTED		SECURITY CAMERA
	BELL	ES	ELECTRIC DOOR STRIKE
C	CHIME	SCP	SECURITY CONTROL PANEL
B	BUZZER	ML	MAGNETIC DOOR LOCK
	TELEVISION OUTLET	GB	GLASS BREAK DETECTOR
C	CLOCK OUTLET	KP	KEYPAD
		B	BEACON B=BLUE, R=RED

FIRE ALARM SYSTEM LEGEND

(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL	M	MANUAL PULL STATION
FTR	FIRE ALARM TRANSPONDER	AIM	ADDRESSABLE INPUT MODULE
FSA	FIRE ALARM SYSTEM ANNUNCIATOR PANEL (GRAPHIC/DIRECTORY)	AOM	ADDRESSABLE OUTPUT MODULE
FAA	REMOTE ANNUNCIATOR PANEL	H15cd	AUDIOVISUAL DEVICE (H##cd=HORN/STROBE COMBINATION S=SPEAKER/STROBE COMBINATION, C=CHIME/STROBE COMBINATION)
GZM	GRAPHIC ZONE MAP	H	AUDIBLE DEVICE (H=HORN, S=SPEAKER, C=CHIME)
ESR	ELEVATOR STATUS/RECALL	15cd	FIRE ALARM STROBE (cd= CANDELLA RATING 15, 30, 75, 110)
ASFP	AIR SAMPLING CONTROL PANEL		FIRE ALARM BELL
ASRD	REMOTE DISPLAY UNIT (AIR SAMPLING SYSTEM)	F b	FIRE ALARM VOICE EVACUATION SPEAKER ("b" INDICATES RISER CIRCUIT DESIGNATION)
P	SMOKE DETECTOR (P=PHOTOELECTRIC, I=IONIZATION, BR=BEAM RECEIVER, BT=BEAM TRANSMITTER)	F b	FIRE ALARM VOICE EVACUATION SPEAKER (W/STROBE) ("b" INDICATES RISER CIRCUIT DESIGNATION)
F	THERMAL DETECTOR F=FIXED TEMPERATURE, R=FIXED TEMPERATURE & RATE OF RISE (TEMP. RATING)	J	EMERGENCY TELEPHONE STATION (J=JACK, H=HANDSET)
UV	FLAME DETECTOR (UV=ULTRAVIOLET, IR=INFRARED)		MAGNETIC DOOR HOLD
	DUCT SMOKE DETECTOR S=SUPPLY, R=RETURN		TAMPER SWITCH
RTS	DUCT DETECTOR REMOTE INDICATOR ALARM AND TEST		FLOW DETECTOR SWITCH
	REMOTE INDICATOR LIGHT	FSD	INDICATES A FIRE ALARM DEVICE CONTROLLING A FIRE SMOKE DAMPER

ONE-LINE DIAGRAM LEGEND

(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DISCONNECT SWITCH	A	PANELBOARD "A"
	DISCONNECT SWITCH, FUSED	PM	EM=ENERGY METER, PM=POWER METER, CM=CIRCUIT MONITOR
	CIRCUIT BREAKER	VS	VOLTMETER TEST SWITCH
	FUSE	AS	AMMETER TEST SWITCH
	GROUND	V	VOLTMETER
T ##	STEP DOWN TRANSFORMER, ## INDICATES KVA	A	AMMETER
TK# ##	K-RATED STEP DOWN TRANSFORMER ## INDICATES KVA, # INDICATES K RATING	XFMR	SEE TRANSFORMER SCHEDULE FOR FEEDER SIZE
	CURRENT TRANSFORMER	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE FOR BREAKER/FEEDER SIZE
	POTENTIAL TRANSFORMER	XX:XX	SEE FEEDER SCHEDULE FOR FEEDER SIZE
	SERVICE ENTRANCE TRANSFORMER	G	ENGINE GENERATOR
M	UTILITY METER		CONTACTOR/RELAY/CAPACITOR (AS NOTED)
	EQUIPMENT ENCLOSURE		TRANSFER SWITCH – ATS=AUTOMATIC, MTS=MANUAL
	SERVICE WEATHERHEAD	GFI	GROUND FAULT INTERUPTER
ISCA	SHORT CIRCUIT CURRENT AVAILABLE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
K a	KIRK KEY INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP	ST	SHUNT TRIP
E a	ELECTRICAL INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP		TERMINATIONS LB=LOAD BREAK, NLB=NO LOAD BREAK
M	MECHANICAL INTERLOCK		DRAW-OUT DEVICE
EO	ELECTRICALLY OPERATED		PLUG-IN DEVICE

MECHANICAL EQUIPMENT SCHEDULE

KEY	ITEM	MOTORS HP	FLA	OTHER WATTS	EQUIV. LD (VA)	VOLTAGE VLTS	PH	FEEDER SETS	SIZE	°C	PROTECTION BREAKER	DISC. SW.	FUSE	DISC AT UNIT DISC. SW.	FUSE	NOTE
FTU-2-27	FAN TERMIAL UNIT			180	180	120	1	1	2 # 12 ,1 # 12 G	3/4	20 A 1 P			STO		

NOTES:

1. COORDINATE DISCONNECT WITH MECHANICAL.

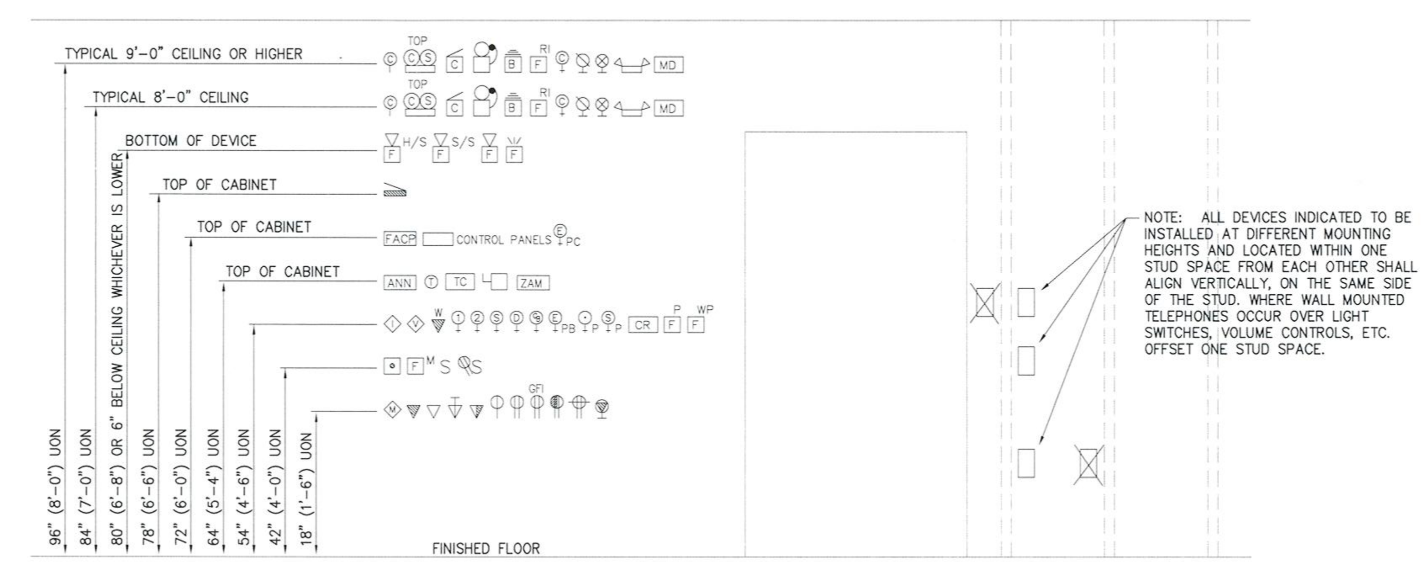
LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLT AMPS	MANUFACTURER	CATALOG NO.	VOLTAGE	FINISH	MOUNTING	RECESS
PG2	2X4 RECESSED FLUORESCENT WITH 3" PARABOLIC LOUVER AND 2-LAMP ELECTRONIC BALLAST UNLESS NOTED OTHERWISE FOR DUAL LEVEL SWITCHING (SEE NOTE #5).	2 F28T8	50	LITHONIA COLUMBIA	2PM3N-G-332-A12125 277-GEB	277	WHITE	RECESS GRID	5-1/4"
TG2	2X4 RECESSED FLUORESCENT WITH ACRYLIC LENS AND 2-LAMP ELECTRONIC BALLAST UNLESS NOTED OTHERWISE FOR DUAL LEVEL SWITCHING (SEE NOTE #5).	2 F28T8	50	LITHONIA COLUMBIA	2SP8-G-332-A12125 277-GEB	277	WHITE	RECESS GRID	4"
TG2E	SIMILAR TO TG3 WITH BATTERY PACK, EMERGENCY BALLAST (CENTER LAMP) AND 2-LAMP ELECTRONIC BALLAST (OUTBOARD LAMPS).	2 F28T8	50	LITHONIA COLUMBIA	2SP8-G-332-A12125 277-EL	277	WHITE	RECESS GRID	4"

NOTES:

1. CATALOG NUMBER REFERS TO FIRST NAME LISTED UNDER MANUFACTURER PER LUMINAIRE TYPE. REMAINING MANUFACTURERS LISTED ARE CONSIDERED EQUIVALENT PRODUCTS FOR THIS PROJECT AND SHALL MEET ALL CRITERIA LISTED INCLUDING THAT CALLED FOR BY THE SPECIFIC LUMINAIRE CATALOG NUMBER. CATALOG NUMBERS DO NOT NECESSARILY REPRESENT COMPLETE CATALOG NUMBERS. ALL ITEMS LISTED IN THE DESCRIPTION SHALL BE PROVIDED.
2. ALL LIGHTING REQUIRING A BALLAST SHALL BE PROVIDED WITH HIGH POWER FACTOR BALLAST.
3. ALL LENSES LISTED AS .125" MINIMUM SHALL BE 9.1 oz/sq ft.
4. PROVIDE QUANTITY OF BALLASTS FOR INDIVIDUAL LUMINAIRES AS REQUIRED TO ACCOMMODATE SWITCHING ARRANGEMENTS AS SHOWN ON THE DRAWINGS.
5. PROVIDE (1) 1-LAMP BALLAST (CENTER LAMP) AND (1) 2-LAMP BALLAST (OUTBOARD LAMPS) WHERE DUAL LEVEL SWITCHING IS INDICATED ON PLANS.
6. NOT ALL LUMINAIRES INDICATED ON SCHEDULE MAY BE USED WITHIN THE PROJECT SCOPE.
7. ALL LUMINAIRES INDICATED AS SHADED WITHIN EXAM ROOMS SHALL BE SWITCHED; ALL SHADED LUMINAIRES IN CORRIDORS SHALL REMAIN ON CONTINUOUSLY.

This sheet of drawings has not been reviewed for code compliance.



TYPICAL DEVICE MOUNTING HEIGHTS

NO SCALE

NOTES:

1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
2. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.

6-4-02

16143.1

DIVISION 16 - ELECTRICAL SPECIFICATIONS:

SECTION 16010 – BASIC ELECTRICAL REQUIREMENTS
A. ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH LOCAL AND STATE CODES, AND LATEST EDITIONS OF ALL BUILDING CODES, NEC, NFPA AND ADA.
B. CONTRACTOR SHALL PAY FOR ALL FEES.
C. CONTRACTOR SHALL PREPARE COMPLETE AS-BUILT DRAWINGS INDICATING ALL ADDENDUMS, CHANGE ORDERS, MAJOR CONDUIT ROUTING, FIELD CHANGES, ETC.
D. CONTRACTOR SHALL PREPARE THREE (3) SETS OF MAINTENANCE MANUALS, INCLUDING ALL WARRANTY INFORMATION, AND SHALL INSTRUCT OWNER ON OPERATION OF ELECTRICAL SYSTEMS.
E. MAINTIAN CODE REQUIRED CLEARANCES AND ACCESSIBILITY.

SECTION 16110 – RACEWAYS
A. GENERAL
1. RIGID, INTERMEDIATE METAL AND FLEXIBLE METAL CONDUIT SHALL BE GALVANIZED STEEL.
2. ELECTRICAL METALLIC TUBING SHALL BE ELECTRO-GALVANIZED STEEL, 3/4" MINIMUM.
3. LIQUIDTIGHT FLEXIBLE METALLIC TUBING SHALL BE GALVANIZED STEEL WITH POLYVINYL JACKET BONDED ONTO EXTERIOR.
4. ALUMINUM CONDUIT, AC AND MC TYPE CABLE WILL NOT BE ALLOWED.
5. CONDUITS SHALL BE SIZED ACCORDING TO THE NEC BASED ON USE OF COPPER CONDUCTORS.
6. CONDUITS SHALL BE CONCEALED IN BUILDING CONSTRUCTION EXCEPT WHERE EXPOSED RUNS ARE INDICATED.
7. ELECTRICAL METALLIC TUBING (EMT) FITTINGS: DIE CAST COMPRESSION FITTINGS FOR RAINTIGHT AND CONCRETE TIGHT APPLICATIONS. DIE CAST SET SCREW FOR ALL OTHER CONNECTIONS. BUSHINGS SHALL BE THREADED AND HAVE NYLON INSULATED THROAT OR NYLON BUSHING.
8. LIQUID-TIGHT AND METAL FLEXIBLE CONDUIT FITTINGS: MALLEABLE IRON OR STEEL WITH NYLON INSULATED THROAT ON NYLON BUSHING.
9. TYPE HCF CABLE WILL BE ALLOWED BETWEEN DEVICES IN WALLS AND ABOVE CEILINGS. EMT CONDUIT SHALL BE USED FOR ALL HOME RUNS.

SECTION 16120 – WIRES AND CABLE
A. CONDUCTORS SHALL BE NEW AND UNUSED COPPER, SINGLE CONDUCTOR TYPE.
B. NUMBER 10 AWG WIRE AND SMALLER SHALL BE SOLID.
C. NUMBER 8 AWG WIRE AND LARGER SHALL BE STRANDED.
D. GROUNDING CONDUCTORS SHALL BE COPPER IN ALL CASES.
E. BRANCH CIRCUIT AND FEEDER WIRING SHALL BE COLOR CODED IN ACCORDANCE WITH THE NEC.
F. GROUND CONDUCTOR PROVIDED FOR ALL CIRCUITS.
G. PROVIDE #10 CONDUCTORS FOR 120V CIRCUITS OVER 100 FEET.

SECTION 16135 – CABINETS, BOXES, & FITTINGS
A. CONTRACTOR SHALL PROVIDE CODE GAUGE SHEET METAL PULL & JUNCTION BOXES COMPLETE WITH ACCESSORIES SIZED PER THE NEC.
B. PULL & JUNCTION BOXES SHALL BE FACTORY PAINTED.
C. OUTLET BOXES SHALL BE ZINC OR CADMIUM-PLATED CODE GAUGE PRESSED STEEL AND OF THE KNOCK-OUT TYPE.
D. ROUND BOXES WILL NOT BE PERMITTED EXCEPT WHERE SPECIFIED.
E. OUTLET BOXES SHALL BE INSTALLED SECURELY AND PLUMB WITH BUILDING LINES IN ACCORDANCE WITH THE NEC.
F. OUTLET BOXES SHALL BE SUPPORTED INDEPENDENTLY OF THE CONDUIT SYSTEM.
G. BACK TO BACK OUTLETS SHALL NOT BE PERMITTED.
H. TELEPHONE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT AS ADJACENT RECEPTACLE OUTLETS.

SECTION 16142 – ELECTRICAL CONNECTIONS FOR EQUIPMENT
A. MOTORS 1/2 HP OR SMALLER SHALL BE RATED 115V, SINGLE PHASE UNLESS NOTED OTHERWISE.
B. MOTORS LARGER THAN 1/2 HP SHALL BE RATED 480V, THREE PHASE UNLESS NOTED OTHERWISE.
C. PROVIDE MANUAL MOTOR STARTERS FOR SINGLE PHASE MOTORS WHERE INTERLOCKED WITH EXTERNAL DEVICES.
D. MANUAL STARTERS SHALL HAVE THERMAL OVERLOAD PROTECTION AND PILOT LIGHT.
E. LOCALLY MOUNTED STARTERS SHALL BE EQUIPPED WITH ENCLOSURES DEFINED BY NEMA STANDARDS.

SECTION 16143 – WIRING DEVICES
A. WALL SWITCHES
1. WIRING DEVICES SHALL BE 20 AMP RATED, SPECIFICATION GRADE, AND OF SAME MANUFACTURER INSOFAR AS POSSIBLE. HOSPITAL GRADE DEVICES SHALL BE USED IN PATIENT CARE AREAS INCLUDING EXAM, PROCEDURE AND SIMILAR TYPE ROOMS.
2. 120/277V WALL SWITCHES SHALL BE QUIET 20 AMP RATED, SLOW-MAKE, SLOW-BREAK WITH TOGGLE HANDLE, AND TOTALLY ENCLOSED. 3. TWO-POLE, THREE-WAY, FOUR-WAY, PILOT LIGHT AND KEY OPERATED SWITCHES SHALL BE OF SAME CONSTRUCTION.
3. SWITCH COLOR SHALL BE IVORY OR AS SPECIFIED BY ARCHITECT.
4. MANUAL STARTERS SHALL BE FLUSH MOUNTING TYPE WITH STAINLESS STEEL PLATES.
5. MOUNTING HEIGHT SHALL BE 42 INCHES UNLESS SPECIFIED OTHERWISE.
6. DIMMER SWITCHES SHALL BE LUTRON.

B. RECEPTACLES
1. DEVICES SHALL BE 20 AMP RATED, HOSPITAL GRADE, AND OF THE SAME MANUFACTURER INSOFAR AS POSSIBLE AND BE OF THE GROUNDING TYPE.
2. DEVICE COLOR SHALL BE IVORY OR AS SPECIFIED BY ARCHITECT.
3. OVER COUNTER DEVICES SHALL BE MOUNTED HORIZONTALLY WITH NEUTRAL UP OR AS DIRECTED BY THE ARCHITECT.
4. PROVIDE TAMPER-RESISTANT TYPE RECEPTACLES IN ALL PEDIATRIC AND WAITING AREAS.
C. PLATE COVERS
1. MATERIALS SHALL BE AS FOLLOWS:
a) THERMOPLASTIC: SMOOTH, IVORY COLOR-VERIFY COLOR WITH THE ARCHITECT.

SECTION 16190 – SUPPORTING DEVICES
A. HANGERS, SUPPORTS AND STRAPS SHALL BE CORROSION RESISTANT OR GALVANIZED STEEL.
B. SINGLE CONDUIT RUNS SHALL BE SUPPORTED BY GALVANIZED CONDUIT STRAPS OR RING BOLT TYPE HANGERS.
C. MULTIPLE CONDUIT RUNS SHALL BE SUPPORTED BY TRAPEZE TYPE GALVANIZED STEEL CHANNELS WITH ROD HANGERS.
D. ANCHORING METHODS AS FOLLOWS:
1. HOLLOW MASONRY: TOGGLE BOLTS OR SPIDER TYPE EXPANSION ANCHORS.
2. SOLID MASONRY: LEAD EXPANSION ANCHORS OR PRESET INSERTS.
3. METAL SURFACES: MACHINE SCREWS, BOLTS OR WELDED STUDS.
4. WOOD SURFACES: WOOD SCREWS AND/OR NAILS.
5. CONCRETE SURFACES: LEAD EXPANSION OR SELF-DRILLING ANCHORS.
F. RACEWAYS SHALL BE SUPPORTED EVERY 10 FEET AND WITHIN 36 INCHES OF EACH OUTLET, ELL, FITTING, PANEL, ETC.
G. CONDUIT SHALL NOT BE SUPPORTED OR ATTACHED FROM CEILING SUPPORT WIRES.
H. RACEWAYS OR EQUIPMENT SHALL NOT BE SUSPENDED FROM PIPING OR DUCTWORK.

SECTION 16195 – ELECTRICAL IDENTIFICATION
A. PROVIDE LABELING AT BOXES ABOVE THE CEILING.

SECTION 16452 – GROUNDING
A. GROUNDING CONDUCTORS SHALL BE COPPER IN ALL CASES.
B. GROUNDING BUSES SHALL BE COPPER IN ALL CASES.
C. GROUND THE SECONDARY ELECTRICAL SYSTEM AND COMMUNICATION SYSTEM IN ACCORDANCE WITH THE NEC.

SECTION 16475 – OVERCURRENT PROTECTIVE DEVICES
A. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AS PANELBOARD; THERMAL MAGNETIC, QUICK-MAKE, QUICK-BREAK, TRIP FREE, TRIP INDICATING, BOLT-IN TYPE AND RATED FOR THE AVAILABLE FAULT CURRENT.
B. WHERE NOT A PART OF A PRE-FABRICATED PANELBOARD, CIRCUIT BREAKERS SHALL BE INSTALLED IN A NEMA 1 OR NEMA 3R ENCLOSURE AS REQUIRED.
C. DISCONNECTING SWITCHES SHALL BE NEMA STANDARD TYPE "HD" 100 PERCENT DUTY RATED IN NEMA 1 ENCLOSURES WITH QUICK-MAKE, QUICK-BREAK OPERATING MECHANISMS. PROVIDE FACILITIES FOR PADLOCKING IN "OFF" POSITION.
D. NEMA 3R ENCLOSURES SHALL BE USED IN EXTERIOR OR WET LOCATIONS.
E. SWITCHES SHALL BE OF THE SAME OR LARGER AMPERE RATING AS THE CIRCUIT PROTECTIVE DEVICE.
F. FUSES SHALL BE OF SAME MANUFACTURER.
G. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EVERY FUSE SIZE INSTALLED.

SECTION 16515 – LIGHTING
A. LUMINAIRES SHALL HAVE MANUFACTURERS STANDARD FINISH UNLESS OTHERWISE NOTED.
B. LUMINAIRES
1. FLUORESCENT LUMINAIRES SHALL BE CONNECTED WITH FLEXIBLE METAL CONDUIT IN ACCORDANCE WITH THE NEC.
2. LUMINAIRES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S RECOMMENDATIONS.
3. EXIT SIGNS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE COMMON AREA LUMINAIRE CIRCUIT OR AS SHOWN ON PLANS.
C. BALLASTS AND ACCESSORIES
1. FLUORESCENT BALLASTS SHALL BE CBM CERTIFIED, HIGH POWER FACTOR PROGRAM RAPID START AND PROTECTED IN ACCORDANCE WITH THE NEC.
2. BALLASTS SHALL BE INTERNALLY MOUNTED UNLESS NOTED OTHERWISE.
3. DIMMABLE BALLASTS SHALL BE BY LUTRON WITH DIMMING TO 10% UNLESS NOTED OTHERWISE.
D. LAMPS
1. INCANDESCENT LAMPS SHALL BE OF THE INSIDE FROST TYPE UNLESS OTHERWISE NOTED.
2. FLUORESCENT LAMPS SHALL BE RAPID START 41K UNLESS OTHERWISE NOTED.
3. LUMINAIRES SHALL BE PROVIDED WITH NEW LAMPS PRIOR TO FINAL ACCEPTANCE.

SECTION 16535 – EMERGENCY LIGHTING
A. EXIT LIGHTS SHALL BE SELF-CONTAINED WITH GREEN LETTERS ON A WHITE BACKGROUND.
B. EMERGENCY LIGHTING UNITS SHALL BE FULLY AUTOMATIC AC/DC ASSEMBLIES WITH SEALED BATTERIES AND SOLID STATE CHARGES AND SELF DIAGNOSTICS.
C. FLUORESCENT LUMINAIRES WITH BATTERY BALLAST SHALL BE COMPLETE WITH AN AUTOMATIC BATTERY PACK ASSEMBLY CAPABLE OF 1100 LUMEN OUTPUT TO OPERATE TWO LAMPS (IF AVAILABLE) UNLESS NOTED OTHERWISE.
D. EMERGENCY LIGHTING UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND THE MANUFACTURER'S RECOMMENDATIONS.

SECTION 16721 – FIRE ALARM AND DETECTION SYSTEM
A. NEW FIRE ALARM EQUIPMENT SHALL BE OF THE SAME MANUFACTURER AS THE EXISTING. EXISTING MANUFACTURER IS MERIDIAN EST.
B. INSTALL AND CONNECT EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
C. FINAL CONNECTIONS TO BE MADE UNDER THE SUPERVISION OF THE MANUFACTURER'S FIELD REPRESENTATIVE.
D. SYSTEM SHALL BE TESTED UNDER THE SUPERVISION OF THE OWNER'S REPRESENTATIVE, ENGINEER AND THE LOCAL FIRE PREVENTION AGENCY.
E. PROVIDE NEW/UPDATED GRAPHIC MAPS WITH UPDATED ROOMS/ROOM NAMES AS REQUIRED.

END OF DIVISION 16

10-490136

DAVIS PARTNERSHIP ARCHITECTS

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COLORADO REGISTERED PROFESSIONAL ENGINEER CHARLENE ANN BOCEK 36245 JUL 30 2010

Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.30.2010	

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:

ELECTRICAL LEGEND, DETAIL AND SPECIFICATIONS

CONSTRUCTION DOCUMENTS 30 JULY 2010

Sheet Number:

E1

DPA Project: 10814.00

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01 January, 2000

EXISTING MDC "MDP"

MDC Notes:

2000 A M.L.O.
2000 A BUS

VOLTAGE 277 / 480 V
PHASE 3 PH
WIRE 4 W

65,000 AMPERE SHORT CIRCUIT RATING (FULLY RATED)

DESCRIPTION OF SUB-LOAD OR PANEL	LIGHTING PH A	LIGHTING PH B	LIGHTING PH C	RECEPTACLES PH A	RECEPTACLES PH B	RECEPTACLES PH C	MOTORS PH A	MOTORS PH B	MOTORS PH C	MOTORS LARGEST	OTHER PH A	OTHER PH B	OTHER PH C	GENERAL PH A	GENERAL PH B	GENERAL PH C	REMARKS
"H1A"	10795	9176	11330	17100	17460	15840	4982	2221	2008	1500	29567	30708	20778	6500	8900	9900	400
"H2A"	13454	14260	11040	31340	31120	28500	1404	696	3011	1200	47179	39053	46174	13728	12480	11232	400
"H3A"	8551	8746	6924	21600	16740	15120	8852	11010	11168	6300	47560	18887	24745	8358	8816	7208	400
RTU-1							107138	107138	107138	107138							600
ELEV-P							14411	14411	14411	14411							90
ELEV-P							14411	14411	14411	14411							90
SPARE																	100
SPARE																	100
SPARE																	400
SPACE																	400
SPACE																	800

PHASE LOADING SUMMARY

LOAD TYPE (VA)	PH A	PH B	PH C
LIGHTING	32,800	32,182	29,294
RECEPTACLES	70,040	65,320	59,460
MOTORS	151,198	149,886	152,146
OTHER	124,306	88,649	91,698
GENERAL	28,586	30,196	28,340
TOTAL	406,929	366,233	360,938
PHASE BALANCE	A-B	B-C	C-A
	11%	1%	13%

LOADING SUMMARY

LOAD TYPE	CONNECTED LOAD KVA		NEC CALCULATED DEMAND LOAD		POWER FACTOR	DEMAND LOAD KW	
LIGHTING	94.3	KVA x 125% =	117.8	KVA	x 95% =	112.0	KW
RECEPTACLES							
FIRST 10 KVA	10.0	KVA x 100% =	10.0	KVA	x 100% =	10.0	KW
REMAINDER	184.8	KVA x 50% =	92.4	KVA	x 100% =	92.4	KW
MOTORS							
LARGEST	321.4	KVA x 125% =	401.8	KVA	x 90% =	361.6	KW
REMAINDER	132.2	KVA x 100% =	132.2	KVA	x 90% =	119.0	KW
OTHER	304.7	KVA x 125% =	380.8	KVA	x 100% =	380.8	KW
GENERAL	87.1	KVA x 100% =	87.1	KVA	x 100% =	87.1	KW
TOTAL	1047.3	KVA	1135.0	KVA		1075.7	KW

CONNECTED PF= 95%
CONNECTED AMPACITY = 1,259.8
NEC DEMAND AMPACITY = 1,365.2

EXISTING PANEL "H2A"

400 A M.L.O.
VOLTAGE 277/ 480 V
PHASE 3 PH
WIRE 4 W
TYPE :
MTG. : SURFACE
65,000 AMPERE SHORT CIRCUIT RATING (FULLY RATED)

Panel Notes:
1. NEW LOAD ON EXISTING CIRCUIT BREAKER.
2. PROVIDE NEW CIRCUIT BREAKER IN SPACE TO MATCH EXISTING.
3. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER AS SHOWN.
4. EXISTING LOAD ON NEW CIRCUIT BREAKER. EXISTING LOAD IS ESTIMATED.
5. EXISTING LOAD REMOVED.
6. NEW LOAD.

NOTE	DESCRIPTION	LTG	RECEPT	MOTORS	OTHER	GENERAL	TOTAL	BREAKER AMP / P	CCT	PH	CCT	BREAKER AMP / P	TOTAL	GENERAL	OTHER	MOTORS	RECEPT	LTG	DESCRIPTION	NOTE
	PANEL "L2A1"	480	31340	1404	1500	13728	48452	XFMR /	1	A	2	20 / 1	3354					3354	CORR LTS	
	"	0	31120	696	1700	12480	45996	/	3	B	4	20 / 1	1750					1750	SHELL, BATHROOMS	
	"	0	28500	3011	300	11232	43043	/ 3	5	C	6	25 / 1	4693		4693				FTU-2-8	
	FTU-2-1				6859		6859	40 / 1	7	A	8	25 / 1	4693		4693				FTU-2-9	
	FTU-2-2				6859		6859	40 / 1	9	B	10	40 / 1	6693		6693				FTU-2-10	
	FTU-2-3				6859		6859	40 / 1	11	C	12	25 / 1	4693		4693				FTU-2-11	
	FTU-2-4				6859		6859	40 / 1	13	A	14	25 / 1	4693		4693				FTU-2-12	
	FTU-2-5				6859		6859	40 / 1	15	B	16	20 / 1	864		864				FTU-2-13	
	FTU-2-6				6859		6859	40 / 1	17	C	18	60 /	0							5
	FTU-2-7				6859		6859	40 / 1	19	A	20	/	0							
	LIGHTING	2540					2540	20 / 1	21	B	22	/ 3	0							
	LIGHTING	2560					2560	20 / 1	23	C	24	40 / 1	6693		6693				FTU-2-17	
	LIGHTING	3620					3620	20 / 1	25	A	26	40 / 1	6859		6859				FTU-2-18	
	LIGHTING	3150					3150	20 / 1	27	B	28	20 / 1	528		528				FTU-2-19	
	LIGHTING	3090					3090	20 / 1	29	C	30	20 / 1	528		528				FTU-2-20	
	LIGHTING	2790					2790	20 / 1	31	A	32	50 / 1	8859		8859				FTU-2-21	
	LIGHTING	3360					3360	20 / 1	33	B	34	50 / 1	8859		8859				FTU-2-22	
	LIGHTING	2630					2630	20 / 1	35	C	36	40 / 1	6859		6859				FTU-2-23	
	LIGHTING	3210					3210	20 / 1	37	A	38	20 / 1	0						SPARE	
	LIGHTING	3460					3460	20 / 1	39	B	40	40 / 1	6693		6693				FTU-2-25	
	LIGHTING	2760					2760	20 / 1	41	C	42	50 / 1	8693		8693				FTU-2-26	

PHASE LOADING SUMMARY

LOAD TYPE (VA)	PH A	PH B	PH C
LIGHTING	13454.0	14260.0	11040.0
RECEPTACLES	31340.0	31120.0	28500.0
MOTORS	1404.0	696.0	3011.0
OTHER	47178.5	39053.1	46174.1
GENERAL	13728.0	12480.0	11232.0
TOTAL	107104.5	97609.1	99957.1
PHASE BALANCE	A-B	B-C	C-A
	0.1	0.0	0.1

PANEL LOADING SUMMARY

LOAD TYPE	CONNECTED LOAD KVA		NEC CALCULATED DEMAND LOAD		POWER FACTOR	DEMAND LOAD KW
LIGHTING	38.8	KVA	x 125% =	48.4 KVA	x 95% =	46.0 KW
RECEPTACLES						
FIRST 10 KVA	10.0	KVA	x 100% =	10.0 KVA	x 100% =	10.0 KW
REMAINDER	81.0	KVA	x 50% =	40.5 KVA	x 100% =	40.5 KW
MOTORS						
LARGEST	1.2	KVA	x 125% =	1.5 KVA	x 90% =	1.4 KW
REMAINDER	3.9	KVA	x 100% =	3.9 KVA	x 90% =	3.5 KW
OTHER	132.4	KVA	x 125% =	165.5 KVA	x 100% =	165.5 KW
GENERAL	37.4	KVA	x 100% =	37.4 KVA	x 100% =	37.4 KW
TOTAL	304.7	KVA		307.3 KVA		304.3 KW

PANEL CONNECTED PF= 99%
CONNECTED AMPACITY = 366.5
NEC DEMAND AMPACITY = 369.6

GENERAL NOTES:
' PROVIDE NEW UPDATED PANEL DIRECTORIES FOR PANELS THAT ARE INCLUDED IN THIS PROJECT.
' PROVIDE TYPED DESCRIPTIONS OF NEW CIRCUITS BEING INSTALLED. INDICATE NEW SPARES IN PENCIL.

BREAKER ACCESSORIES
* = GFCI
** = SHUNT TRIP

EXISTING PANEL "L2A1"

400 A MAIN CIRCUIT BREAKER
VOLTAGE 120/ 208 V
PHASE 3 PH
WIRE 4 W
TYPE :
MTG. : SURFACE
10,000 AMPERE SHORT CIRCUIT RATING (FULLY RATED)

Panel Notes:
1. NEW LOAD ON EXISTING CIRCUIT BREAKER.
2. PROVIDE NEW CIRCUIT BREAKER IN SPACE TO MATCH EXISTING.
3. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER AS SHOWN.
4. EXISTING LOAD ON NEW CIRCUIT BREAKER. EXISTING LOAD IS ESTIMATED.
5. EXISTING LOAD REMOVED.
6. NEW LOAD.

NOTE	DESCRIPTION	LTG	RECEPT	MOTORS	OTHER	GENERAL	TOTAL	BREAKER AMP / P	CCT	PH	CCT	BREAKER AMP / P	TOTAL	GENERAL	OTHER	MOTORS	RECEPT	LTG	DESCRIPTION	NOTE
	PANEL "L2A2"	0	24960	1404	0	0	26364	225 /	1	A	2	225 /	13728	13728	0	0	0	0	PANEL L2A3	
	"	0	24540	0	0	0	24540	/	3	B	4	/	12480	12480	0	0	0	0	"	
	"	0	24500	1224	0	0	25724	/ 3	5	C	6	/ 3	11232	11232	0	0	0	0		
	X-RAY EQUIP.	180			300		480	20 / 1	7	A	8	225 /	0						SPARE	
	SMOKE DAMPER				500		500	20 / 1	9	B	10	/	0						"	
	DOOR HOLD OPEN				300		300	20 / 1	11	C	12	/ 3	0						"	
	CONF. 114,RM.10,11		720				720	20 / 1	13	A	14	20 / 1	1920				1920		BODY MASTER	
	CONF. 114,RM.10,11		900				900	20 / 1	15	B	16	20 / 1	1920				1920		BODY MASTER	
	COPIER		600				600	20 / 1	17	C	18	20 / 1	500				500		TELEVISION	
	KIT.114		540				540	20 / 1	19	A	20	20 / 1	900				900		N REC	
	KITCH. RECPT.		1100				1100	20 / 1	21	B	22	20 / 1	180				180		IT ROOM	
	UCREF-KITCH.		600				600	20 / 1	23	C	24	20 / 1	900				900		CENTRAL REC	
	CONF. 113,107		900				900	20 / 1	25	A	26	20 / 1	720				720		S REC	
	GYM EAST WALL		900				900	20 / 1	27	B	28	20 / 1	720				720		S REC	
	GYM NORTH WALL		900				900	20 / 1	29	C	30	20 / 1	233			233			EF-4	
	BODY MASTER NW		500				500	20 / 1	31	A	32	20 / 1	300					300	ELEV LOBBY	
	BODY MASTER NW		500				500	20 / 1	33	B	34	20 / 1	1200		1200				VAV CONTROL XFMR	
	BODY MASTER NW		500				500	20 / 1	35	C	36	20 / 1	162			162			F/S DAMPERS	
	GYM-BIKE-NW		180				180	20 / 1	37	A	38	20 / 1	1200		1200				VAV CONTROL XFMR	
	GYM-BIKE-NW		360				360	20 / 1	39	B	40	20 / 1	696			696			FTU-2-14	
	FTU-2-16			696			696	20 / 1	41	C	42	20 / 1	696			696			FTU-2-15	

PHASE LOADING SUMMARY

LOAD TYPE (VA)	PH A	PH B	PH C
LIGHTING	480.0	0.0	0.0
RECEPTACLES	31340.0	31120.0	28500.0
MOTORS	1404.0	696.0	3011.0
OTHER	1500.0	1700.0	300.0
GENERAL	13728.0	12480.0	11232.0
TOTAL	48452.0	45996.0	43043.0
PHASE BALANCE	A-B	B-C	C-A
	0.1	0.1	0.1

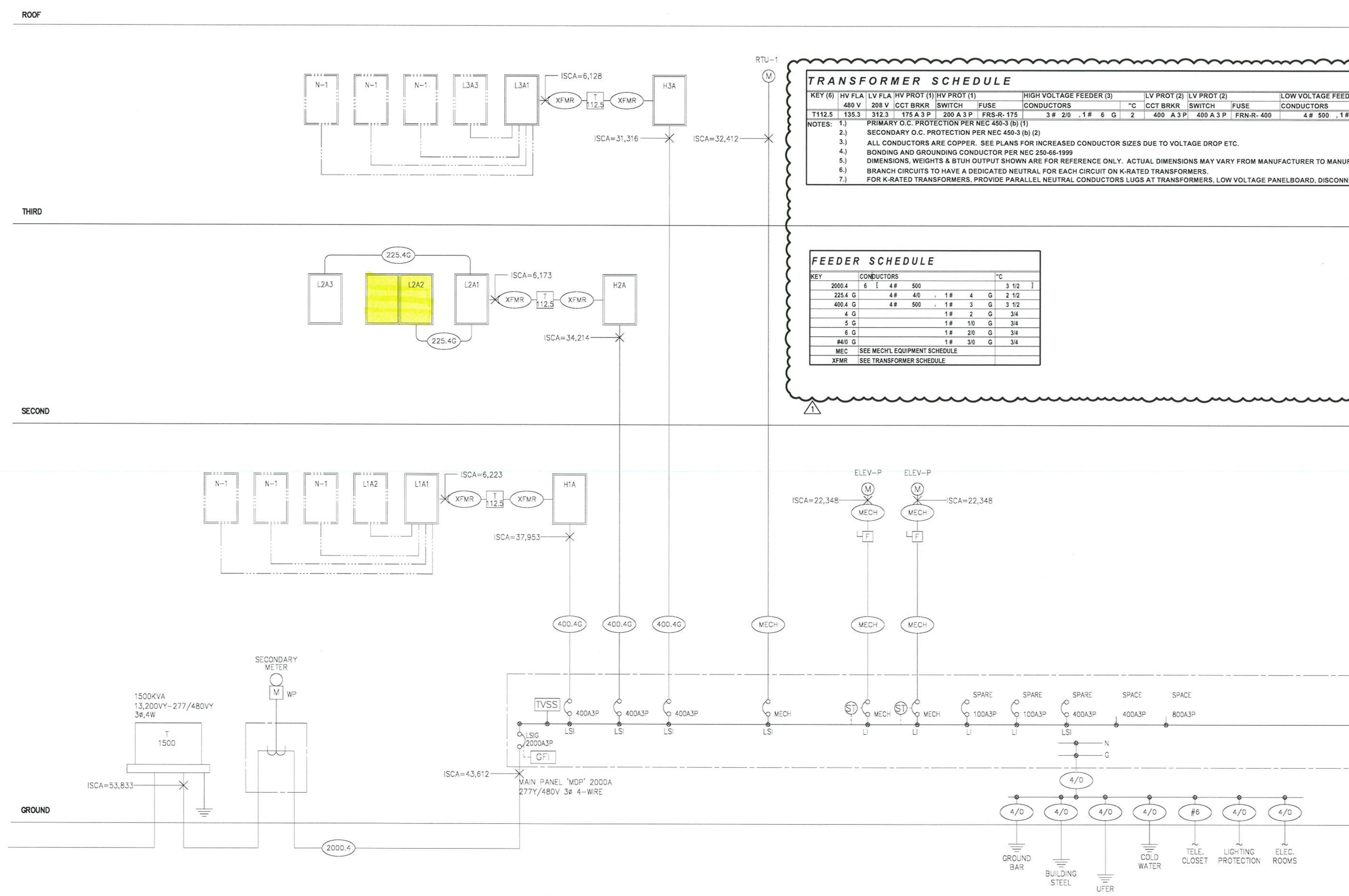
PANEL LOADING SUMMARY

LOAD TYPE	CONNECTED LOAD KVA		NEC CALCULATED DEMAND LOAD		POWER FACTOR	DEMAND LOAD KW
LIGHTING	0.5	KVA	x 125% =	0.6 KVA	x 95% =	0.6 KW
RECEPTACLES						
FIRST 10 KVA	10.0	KVA	x 100% =	10.0 KVA	x 100% =	10.0 KW
REMAINDER	81.0	KVA	x 50% =	40.5 KVA	x 100% =	40.5 KW
MOTORS						
LARGEST	3.7	KVA	x 125% =	4.6 KVA	x 90% =	4.1 KW
REMAINDER	1.4	KVA	x 100% =	1.4 KVA	x 90% =	1.3 KW
OTHER	3.5	KVA	x 125% =	4.4 KVA	x 100% =	4.4 KW
GENERAL	37.4	KVA	x 100% =	37.4 KVA	x 100% =	37.4 KW
TOTAL	137.5	KVA		98.9 KVA		98.3 KW

PANEL CONNECTED PF= 99%
CONNECTED AMPACITY = 381.6
NEC DEMAND AMPACITY = 274.6

GENERAL NOTES:
' PROVIDE NEW UPDATED PANEL DIRECTORIES FOR PANELS THAT ARE INCLUDED IN THIS PROJECT.
' PROVIDE TYPED DESCRIPTIONS OF NEW CIRCUITS BEING INSTALLED. INDICATE NEW SPARES IN PENCIL.

BREAKER ACCESSORIES
* = GFCI
** = SHUNT TRIP



TRANSFORMER SCHEDULE

KEY (6)	HV FLA 480 V	LV FLA 208 V	HV PROT (1) CCT BRKR	HV PROT (1) SWITCH	FUSE	HIGH VOLTAGE FEEDER (3) CONDUCTORS	°C	LV PROT (2) CCT BRKR	LV PROT (2) SWITCH	FUSE	LOW VOLTAGE FEEDER (3) CONDUCTORS	°C	GROUNDING (4) CNDTRS	°C	DIMENSIONS (5) HIGH	WIDE	DEEP	WEIGHT (5)	BTUH OTPT (5)	REMARKS
T112.5	135.3	312.3	175 A 3 P	200 A 3 P	FRS-R- 175	3 # 2/0 , 1 # 6 G	2	400 A 3 P	400 A 3 P	FRN-R- 400	4 # 500 , 1 # 3 G	3-1/2	1 # 1/0	3/4	42.00	36.00	24.00	1050	14830	

NOTES:
1.) PRIMARY O.C. PROTECTION PER NEC 450-3 (b) (1)
2.) SECONDARY O.C. PROTECTION PER NEC 450-3 (b) (2)
3.) ALL CONDUCTORS ARE COPPER. SEE PLANS FOR INCREASED CONDUCTOR SIZES DUE TO VOLTAGE DROP ETC.
4.) BONDING AND GROUNDING CONDUCTOR PER NEC 250-66-1999
5.) DIMENSIONS, WEIGHTS & BTUH OUTPUT SHOWN ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY FROM MANUFACTURER TO MANUFACTURER.
6.) BRANCH CIRCUITS TO HAVE A DEDICATED NEUTRAL FOR EACH CIRCUIT ON K-RATED TRANSFORMERS.
7.) FOR K-RATED TRANSFORMERS, PROVIDE PARALLEL NEUTRAL CONDUCTORS LUGS AT TRANSFORMERS, LOW VOLTAGE PANELBOARD, DISCONNECTS OR LOAD .

FEEDER SCHEDULE

KEY	CONDUCTORS	°C
2000.4	6 [4 # 500	3 1/2]
225.4 G	4 # 4/0 , 1 # 4 G	2 1/2
400.4 G	4 # 500 , 1 # 3 G	3 1/2
4 G	1 # 2 G	3/4
5 G	1 # 1/0 G	3/4
6 G	1 # 2/0 G	3/4
#4/0 G	1 # 3/0 G	3/4
MEC	SEE MECH'L EQUIPMENT SCHEDULE	
XFMR	SEE TRANSFORMER SCHEDULE	

NOTE: ONE LINE DIAGRAM IS EXISTING IN ITS ENTIRITY AND IS SHOWN FOR INFORMATION ONLY.

ELECTRICAL ONE-LINE DIAGRAM

EXISTING PANEL " L2A2"

225 A M.L.O.
225 A BUS
VOLTAGE 120/ 208 V
PHASE 3 PH
WIRE 4 W
TYPE :
MTG. : SURFACE
10,000 AMPERE SHORT CIRCUIT RATING (FULLY RATED)

Panel Notes:
1. NEW LOAD ON EXISTING CIRCUIT BREAKER.
2. PROVIDE NEW CIRCUIT BREAKER IN SPACE TO MATCH EXISTING.
3. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER AS SHOWN.
4. EXISTING LOAD ON NEW CIRCUIT BREAKER. EXISTING LOAD IS ESTIMATED.
5. EXISTING LOAD REMOVED.
6. NEW LOAD.

NOTE	DESCRIPTION	LTG	RECEPT	MOTORS	OTHER	GENERAL	TOTAL	BREAKER AMP / P	CCT	PH	CCT	BREAKER AMP / P	TOTAL	GENERAL	OTHER	MOTORS	RECEPT	LTG	DESCRIPTION	NOTE
	BODY MASTER		1920				1920	20 / 1	1	A	2	20 / 1	900				900		RECPT. 09	
	BODY MASTER		1920				1920	20 / 1	3	B	4	20 / 1	900				900		RECPT. 09	
	BODY MASTER		1920				1920	20 / 1	5	C	6	20 / 1	900				900		OFF. 14, RECPT. 09	
	BODY MASTER		1920				1920	20 / 1	7	A	8	20 / 1	900				900		OFFICE 14, 16	
	COPIER		1000				1000	20 / 1	9	B	10	20 / 1	900				900		OFFICE, 18, 21	
	ROWING MACH		1920				1920	20 / 1	11	C	12	20 / 1	900				900		EXAM 26, 29	
	ROWING MACH		1920				1920	20 / 1	13	A	14	20 / 1	900				900		CORR. REC-12,39,46	
	TRAINING		900				900	20 / 1	15	B	16	20 / 1	960				960		UCREF - NURSE 28	
	TRAINING		900				900	20 / 1	17	C	18	20 / 1	720				720		REC. RM. 44,42	
	TRAINING		900				900	20 / 1	19	A	20	20 / 1	540				540		EXAM 15	
	TRAINING		900				900	20 / 1	21	B	22	20 / 1	720				720		PROCEDURE 19	
	TRAINING		900				900	20 / 1	23	C	24	20 / 1	780				780		UCREF-PROC. 19	
	TRAINING		900				900	20 / 1	25	A	26	20 / 1	540				540		HAND 07	
	RM. 108, 92		900				900	20 / 1	27	B	28	20 / 1	1500				1500		COPIER	
	RM. 08,82,85,88,116,117		1080				1080	20 / 1	29	C	30	20 / 1	1440				1440		DIGITIZER	
	RM. 85,86,87,92		900				900	20 / 1	31	A	32	20 / 1	960				960		LAB 23	
	WORK RM. 104		720				720	20 / 1	33	B	34	20 / 1	1100				1100		LAB 23-UCREF	
	FTU-2-20,24			1224			1224	20 / 1	35	C	36	20 / 1	780				780		NURSE 28	
	FTU-2-19,13			1224			1224	20 / 1	37	A	38	20 / 1	540				540		EXAM 33, TEST 52	
	RM 113, 107		900				900	20 / 1	39	B	40	20 / 1	900				900		EXAM 33, 34	
	REC. TREAT. 98		360				360	20 / 1	41	C	42	20 / 1	900				900		EXAM 29,31	
	REC. TREAT. 98		900				900	20 / 1	43	A	44	20 / 1	900				900		EXAM 31, 35	
	REC. SO. WALL GYM		900				900	20 / 1	45	B	46	20 / 1	900				900		EXAM 36	
	RM. 96,97,		900				900	20 / 1	47	C	48	20 / 1	900				900		NE CORNER OFF	
	RM. 93,94,95		900				900	20 / 1	49	A	50	20 / 1	900				900		OFFICE 33, 41	
	RM. 83,84, BREAK		900				900	20 / 1	51	B	52	20 / 1	900				900		EXAM 43	
	BREAK-REF, REC.		960				960	20 / 1	53	C	54	20 / 1	540				540		LAB, EXAM 44	
	BREAK-REF, REC.		600				600	20 / 1	55	A	56	20 / 1	900				900		WORK 45	
	BREAK - VENDING		600				600	20 / 1	57	B	58	20 / 1	900				900		STOR. 48 - CENTER	
	BREAK - VENDING		900				900	20 / 1	59	C	60	20 / 1	1080				1080		SOTR.48 WEST WALL	
	RM. 74, 77		900				900	20 / 1	61	A	62	20 / 1	1440			180	1260		REC-WKRM/STOR	1
	RM. 74,75,76		900				900	20 / 1	63	B	64	20 / 1	720				720		REC-OFFICE	1
	OFFICE 73		1080				1080	20 / 1	65	C	66	20 / 1	900				900		EXAM 63, VIEWBOX	
	OFFICE 81,THRPY 79		1080				1080	20 / 1	67	A	68	20 / 1	900				900		EXAM 69, NURSE 64	
	RM. 65,66(X-RAY), 67		900				900	20 / 1	69	B	70	20 / 1	900				900		VIEWBOX, EXAM 71	
	WAITING 49		900				900	20 / 1	71	C	72	20 / 1	360				360		REC-RECEPTION	1
	REC. RM. 53		720				720	20 / 1	73	A	74	20 / 1	540				540		REC-PROCEDURE	1
	REC. RM. 53, 58		900				900	20 / 1	75	B	76	20 / 1	0						SPARE	
	EXAM 62, OFF. 61		900				900	20 / 1	77	C	78	20 / 1	500				500		DISPOSAL	
	SPARE						0	20 / 1	79	A	80	20 / 1	720				720		RM 09, 13	
	SPARE						0	20 / 1	81	B	82	20 / 1	900				900		RM 08, 17,15	
	SPARE						0	20 / 1	83	C	84	20 / 1	1080				1080		DISPOSAL	

PHASE LOADING SUMMARY

LOAD TYPE (VA)	PH A	PH B	PH C
LIGHTING	0.0	0.0	0.0
RECEPTACLES	24960.0	24540.0	24500.0
MOTORS	1404.0	0.0	1224.0
OTHER	0.0	0.0	0.0
GENERAL	0.0	0.0	0.0
TOTAL	26364.0	24540.0	25724.0
PHASE BALANCE	A-B	B-C	C-A
	0.1	0.0	0.0

PANEL LOADING SUMMARY

LOAD TYPE	CONNECTED LOAD KVA		NEC CALCULATED DEMAND LOAD		POWER FACTOR	DEMAND LOAD KW
LIGHTING	0.0	KVA	x 125% =	0.0 KVA	x 95% =	0.0 KW
RECEPTACLES						
FIRST 10 KVA	10.0	KVA	x 100% =	10.0 KVA	x 100% =	10.0 KW
REMAINDER	64.0	KVA	x 50% =	32.0 KVA	x 100% =	32.0 KW
MOTORS						
LARGEST	1.2	KVA	x 125% =	1.5 KVA	x 90% =	1.4 KW
REMAINDER	1.4	KVA	x 100% =	1.4 KVA	x 90% =	1.3 KW
OTHER	0.0	KVA	x 125% =	0.0 KVA	x 100% =	0.0 KW
GENERAL	0.0	KVA	x 100% =	0.0 KVA	x 100% =	0.0 KW
TOTAL	76.6	KVA		44.9 KVA		44.6 KW

PANEL CONNECTED PF= 99%
CONNECTED AMPACITY = 212.7
NEC DEMAND AMPACITY = 124.7

GENERAL NOTES:
' PROVIDE NEW UPDATED PANEL DIRECTORIES FOR PANELS THAT ARE INCLUDED IN THIS PROJECT.
' PROVIDE TYPED DESCRIPTIONS OF NEW CIRCUITS BEING INSTALLED. INDICATE NEW SPARES IN PENCIL.

BREAKER ACCESSORIES
* = GFCI
** = SHUNT TRIP

Legibly identify each breaker or switch for it's use or purpose on the circuit directory in the panel/switchboard per 2008 NEC 408.4

AURORA BUILDING INSPECTION
ELECTRICAL SECTION
APPROVED
SUBJECT TO COMMENTS AS NOTED
AND FIELD INSPECTIONS

10-490136

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED AUG 04 2010
2008 NEC

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COLORADO REGISTERED PROFESSIONAL ENGINEER CHARLENE ANN BOCEK 36245 8-3-10

Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.30.2010	
BUILDING DEPARTMENT COMMENTS	08.03.2010	1

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information
Sheet Title:
ONE LINE DIAGRAM AND SCHEDULES

CONSTRUCTION DOCUMENTS 30 JULY 2010

Sheet Number:
E2

DPA Project: 10814.00

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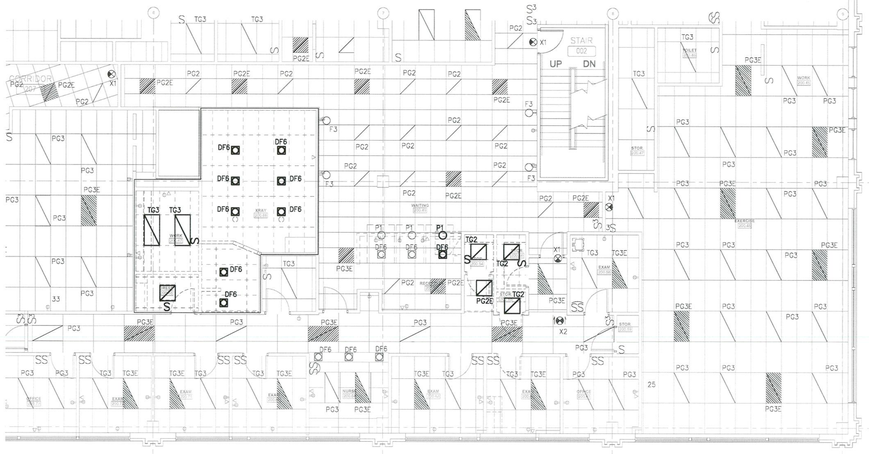
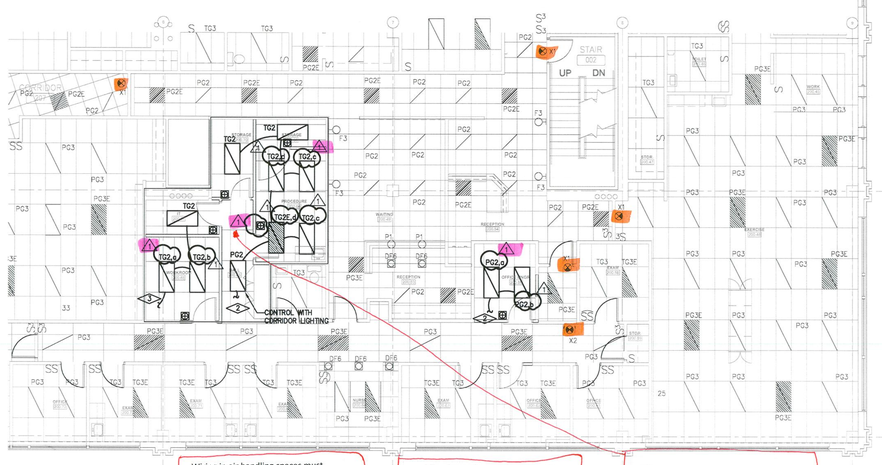


PARTIAL SECOND FLOOR LIGHTING DEMOLITION PLAN
SCALE: 1/8"=1'-0"



PARTIAL SECOND FLOOR LIGHTING PLAN
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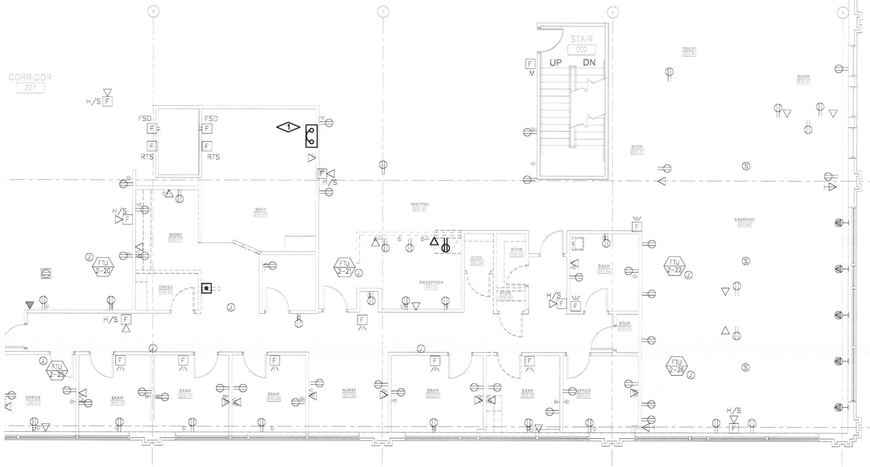
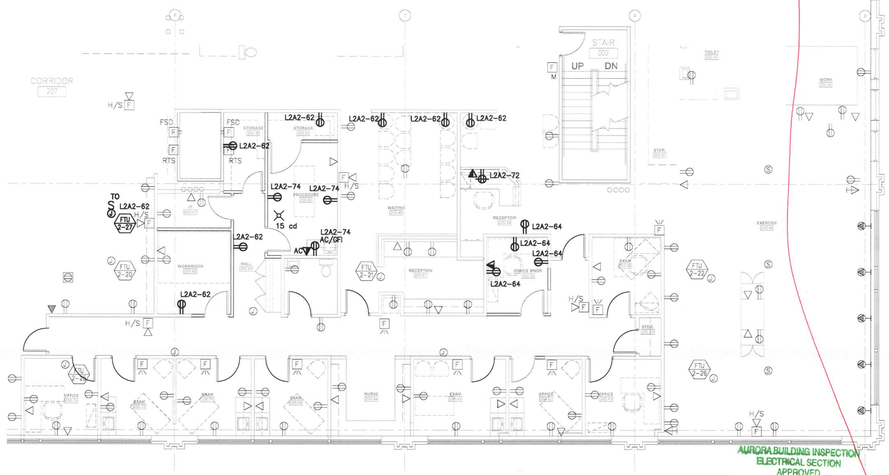


PARTIAL SECOND FLOOR POWER AND SYSTEMS DEMOLITION PLAN
SCALE: 1/8"=1'-0"



PARTIAL SECOND FLOOR POWER AND SYSTEMS PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
3. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED.
4. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
5. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING MATERIALS OR EQUIPMENT.
6. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS, TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
8. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.

DEMOLITION NOTES:

1. UNLESS NOTED OTHERWISE, BOLD ITEMS INDICATE EQUIPMENT, DEVICES, ETC. TO BE REMOVED.
2. DEMOLITION DRAWINGS MAY NOT SHOW EVERY ITEM TO BE DEMOLISHED. CONTRACTOR SHALL VISIT SITE TO DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENTS PRIOR TO QUOTATION. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS. REWORK EXISTING TERMINATIONS, CONNECTIONS, CONDUIT, WIRING, ETC. TO ACCEPT NEW WORK. MAINTAIN CIRCUIT CONTINUITY TO EXISTING CIRCUITS AND DEVICES TO REMAIN OR BE RELOCATED. PRIOR TO COMMENCEMENT OF ANY DEMO WORK, CONFIRM EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
3. ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL WIRING AND EXPOSED CONDUIT AND CONDUIT SUPPORTS BACK TO POINT OF ORIGIN OR NEXT DEVICE TO REMAIN. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER, UNLESS NOTED OTHERWISE, AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
4. WHERE EXISTING CONDUITS ARE SHOWN TO BE REMOVED AND HAVE BEEN ROUTED IN CONCRETE FLOOR SLABS, CONCRETE WALLS OR CONCRETE CEILINGS, THEY SHALL BE CUT BACK FLUSH WITH CONCRETE, FILL WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH CONCRETE SURFACE AFTER CONDUCTORS HAVE BEEN REMOVED.
5. REUSE EXISTING CONDUIT WHERE CURRENT NEC AND LOCAL CODE REQUIREMENTS ARE MAINTAINED. PROVIDE NEW CONDUIT AND WIRE FOR NEW INSTALLATIONS AND EXTENSION OF EXISTING INSTALLATIONS. REUSE EXISTING CONDUIT IN PLACE. DO NOT REINSTALL EXISTING CONDUIT. PROVIDE LABELING PER SPECIFICATIONS FOR REUSED CONDUIT.
6. RELOCATED EQUIPMENT AND DEVICES ARE TO BE CLEANED OF ALL FOREIGN MATERIAL. REPLACE EQUIPMENT OR DEVICES WHICH ARE DEFECTIVE OR DAMAGED DURING RELOCATION.
7. WHERE EXISTING DEVICES, SWITCHES, MOTOR CONNECTIONS, ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, WALLS SHALL BE PATCHED TO MATCH ORIGINAL FINISH. BLANK COVERPLATES OVER EXISTING BOXES ARE NOT ACCEPTABLE, UNLESS NOTED OTHERWISE.

POWER PLAN NOTES:

1. MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
2. PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
3. DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
4. RECEPTACLES INDICATED TO BE MOUNTED ABOVE COUNTER ARE TO BE MOUNTED HORIZONTALLY 6" ABOVE COUNTER.
5. PROVIDE 4 11/16" SQUARE, 2 1/8" DEEP OUTLET BOX, SINGLE GANG MUD RING AND BLANK SINGLE GANG COVER PLATE FOR ALL INDIVIDUAL TELEPHONE, DATA, COMBINATION TELE/DATA AND TELEVISION OUTLETS. ROUTE 1" CONDUIT WITH PULL WIRE TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE INSULATED THROAT CONNECTOR ON CONDUIT END.
6. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
7. COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8. PROVIDE HOSPITAL GRADE RECEPTACLES IN PATIENT CARE AREAS AS DEFINED IN NEC 517-3, INCLUDING ALL PATIENT EXAM, SLEEPING, PROCEDURE, DIAGNOSTIC AND TREATMENT ROOMS.
9. WAITING AND PEDIATRIC AREAS TO BE PROVIDED WITH HOSPITAL GRADE TAMPER RESISTANT RECEPTACLES.
10. NO RECEPTACLES SHALL BE MOUNTED BELOW +18" AFF.
11. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V SINGLE PHASE CIRCUIT. PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR.

LIGHTING PLAN NOTES:

1. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF DEVICES AND LUMINAIRES.
2. COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC., TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
3. PROVIDE NEW LAMPS IN RELOCATED LUMINAIRES TO MATCH LAMPS IN ADJACENT LUMINAIRES. RELOCATED LUMINAIRES SHALL BE THOROUGHLY CLEANED, INCLUDING LENSES/REFLECTORS. COORDINATE WITH LUMINAIRE MANUFACTURER FOR CLEANING OF PARABOLIC REFLECTORS.
4. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V SINGLE PHASE CIRCUIT. PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
5. FIELD COORDINATE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. THE LOCATIONS OF THE OCCUPANCY SENSORS ON THE DRAWINGS ARE DIAGRAMMATIC.

FIRE ALARM PLAN NOTES:

1. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING, UNLESS NOTED OTHERWISE. PROVIDE RE-PROGRAMMING OF SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. REVISE EXISTING ANNUNCIATOR(S) AND GRAPHIC ZONE MAP(S) TO REFLECT PROJECT FIRE ALARM AND ARCHITECTURAL MODIFICATIONS. UPDATE GRAPHIC ZONE MAPS IN BOTH THE FIRE COMMAND CENTER AND ON THIS FLOOR AS REQUIRED. SUBMIT TO ENGINEER AND BUILDING/FIRE DEPARTMENTS FOR REVIEW PRIOR TO INSTALLATION.

KEY NOTES:

<1> REMOVE ALL CONDUIT AND POWER SUPPLIES ASSOCIATED WITH THE XRAY EQUIPMENT BACK TO THEIR SOURCE.

<2> PROVIDE POWER TO LIGHTING FROM CIRCUIT H2A-33 WHICH PREVIOUSLY FED LIGHTING IN THIS AREA.

<3> PROVIDE POWER TO LIGHTING FROM CIRCUIT H2A-31 WHICH PREVIOUSLY FED LIGHTING IN THIS AREA.

<4> PROVIDE OCCUPANCY SENSOR CAPABLE OF CONTROLLING TWO SEPARATE SWITCHES; HUBBELL LHMTD OR EQUIVANT FOR ALL NEW OCCUPANCY SENSORS.

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COLORADO REGISTERED PROFESSIONAL ENGINEER 36245 8-3-10

Issue/Revisions	Date	No.
CONSTRUCTION DOCUMENTS	07.30.2010	
BUILDING DEPARTMENT COMMENTS	08.03.2010	1

Project Information

MEDICAL CENTER OF AURORA SOUTH
PARTIAL SUITE 280 REMODEL
COLORADO NEUROLOGY SPECIALIST
1444 SOUTH POTOMAC
AURORA, CO 80012

Sheet Information

Sheet Title:
ELECTRICAL FLOOR PLANS

CONSTRUCTION DOCUMENTS 30 JULY 2010

Sheet Number:
E3

DPA Project: 10814.00

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01 January, 2000

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